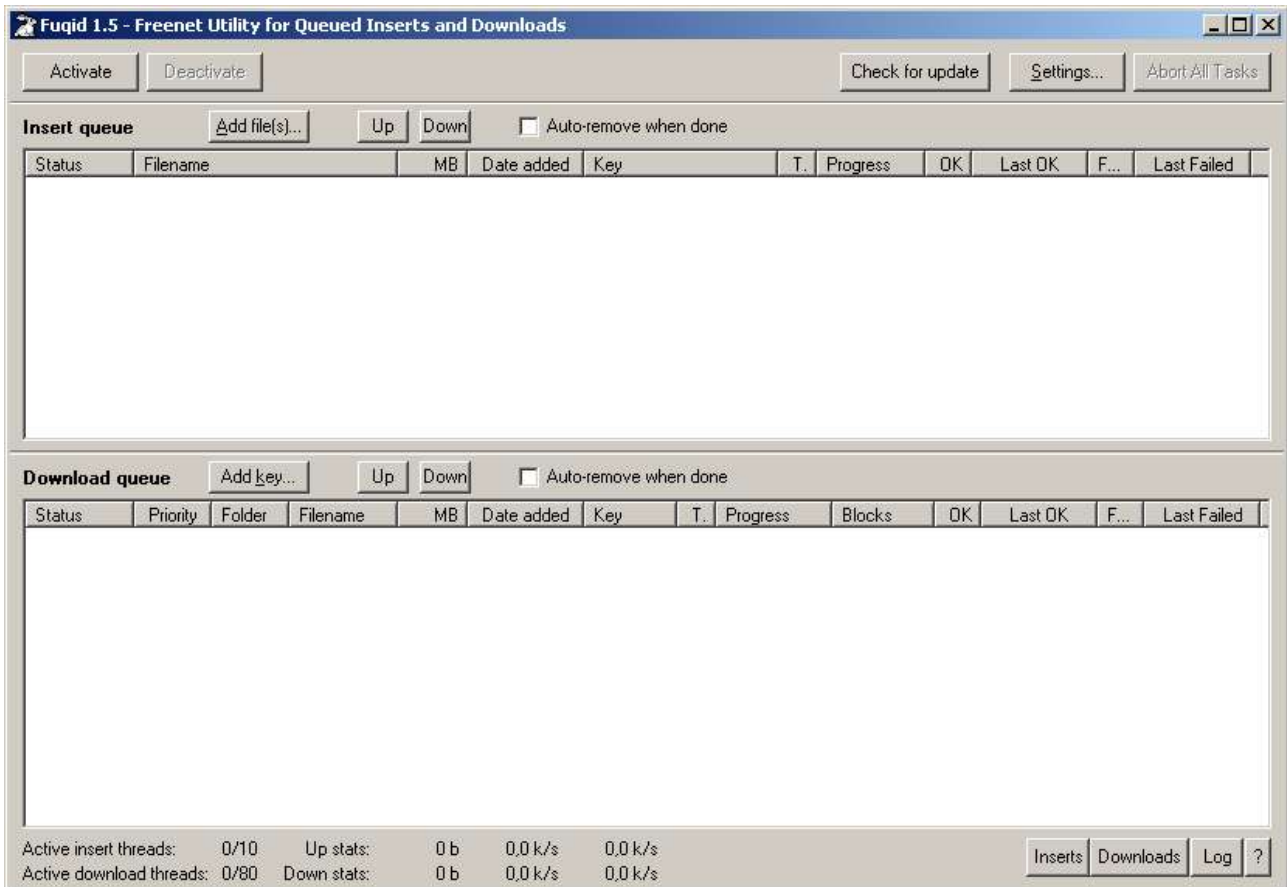


Fuqid 1.5 HELP (EN)

Introduction



Fuqid is the „Freenet Utility for Queued Inserts and Downloads“ and it exactly does that. Freenet tools are often command line and not really handy. The solution with an easy GUI is Fuqid. If you come from another p2p network, you will see some differences, but you won't have any problems to use this nice download-tool.

Beside the nice visual appearance it is indeed also very usefull. It downloads automatically files of any size. And at the moment (Freenet Build 5100) at a descent speed comparable with emule or Kazaa.

But Freenet is more than just filesharing, it is a philosophy, so surf on the Freesites and see what true freedom of speech means.

FUQID was first published in early 2003: Version 0.5a. The main design remained up to the new Version 1.5, but there is much more to discover today. Some things aren not so easy to find anymore, but Fuqid is very easy to use, and you don't want to be without it in the future.

New releases are announced on Frost, where you can meet *mxbee* the Author of the Program and also *Apothis* the Author of this helpfile. Meet us there:

Frost

fuqid-announce

public

SSK@G6ayiFfHdGNMatFgeNm1Xk~gggQPAGM

fuqid-public

public

SSK@5o9nBkbkt9Hwsm0PJpKYJEa8cSMPAGM

private

SSK@ALbN9vLjZ3PBS58ZHw6jY71mFhD

FUQID-1.5.zip

MD5: 0c921bea2833b92731ffd1f3e99aa415 FUQID-1.5.zip

SHA-1: 0459e0c2b4567a00f361fd1750ae24a8978697 FUQID-1.5.zip

SSK@CKesZYUJWn2GMvoif1R4SDbujgPAGM/fuqid/12//FUQID-1.5.zip (Freenet download)

There are Webmirrors, if you download from there check SHA1 or MD5 Checksum

The Installation



The installation is very simple, you got probably a zip. Just extract the exe file in that zip to your favourite Folder. Fuqid will create just files in that Folder, no libraries, no registry entries, nothing outside.

If you want to use fuqid, just doubleclick on the fuqid.exe (yeah the white bunny).

Fuqid will create an ini file, some log files and a folder called Data. This folder will save your partly uploaded and downloaded files.

Update

If you want to update your Fuqid, just overwrite the fuqid.exe. All settings, downloads and uploads will still be there after the update.

Running under Linux with WINE

This will be the only remark about Fuqid and Linux:

There is no Linux Version of Fuqid, there is floating a patch for *Fuqid 1.3*, it was said you can compile fuqid with Open Kylix under Linux if you use that patch. (Maybe there will be a Linux port, maybe not)


The executable runs with WINE. There are some problems and with some configurations it doesnt work. I recommend always the newest WINE Version.

It worked flawless here.

To avoid problems:


- Set the logging level to „No Logging at all“
- If you get errormessages, normally you can ignore them.
- Deactivate all trayicon features

The Mainwindow



Activate

The Activate button starts Fuqid if it is not already running



Deactivate

The Deactivate button shuts down Fuqid. This can take a long time, since it waits till all Threads are Finished. If you want to end Fuqid quickly: click on "Abort all tasks" which shuts down all threads and deactivate Fuqid. After that you can close the window.

Status



- The green *Activate* indicates a running Fuqid
- The brown *Activate* indicates a shutting down Fuqid
- The indicates Fuqid is running but you haven't started Freenet yet, or your Freenet is starting but not yet completely running. If you have not started Freenet yet, do that now. Fuqid will start as soon as the Freenet node is up.



Check for update

This Button checks if there is a new version of Fuqid available in Freenet, and downloads the newest version, if available.

1. You can set an automatic interval in the Setting (Settings section)
2. It should work, but you don't have to use it too often, or use the autocheck function in the settings.



Settings

This will open a Settings Dialog: the standard settings should be tweaked a bit. Please refer to the Settings section of this document.



Abort all tasks

This shuts down all threads immediately and you can exit Fuqid.

Upload / Download



Add Files

If you click on "Add Files" you get the normal file-dialog you know. There you can choose the Files you want to upload. If you selected them and click ok, the two files are inserted in the Upload table and are read to be inserted into Freenet.

Rightclick on Add Files:

You can insert with **additional options**. If you want to use this option, you probably know what you are doing. The additional options are how the key and the metadata is generated. If you change the options here, you'll get different CHK keys for the same Splitfile.

Take in mind that only the key for the metadata key is changed, all keys which belong to the file won't change. Especially if you reinsert: if you get a different key don't bother too much, the others which use the old key will also get the reinserted fileblocks.



The Up and Down Buttons

There are two Buttons above the upload and the download table. If you select one or multiple rows you can change the position of these rows. If you want to upload in a specific order for example. If you miss a top and bottom Button. Yes, indeed, there is none. But you can sort after a specific column ascending or descending.

The "Auto-remove when done"-checkbox

If you check this box all finished uploads or downloads get immediately removed from the tables. If you don't check it you can do it by hand or check the box any time you want, and all finished files in the list get removed.

Remark: Uploading healblocks get removed wheter you checked the box or not.



Add Key...

Probably your most essential feature if you want to download files.

If you have any key you want to download, Copy it in your Clipboard complete with the Filename normally appendet to it (Shortcut Ctrl-C)

If there is a freenetkey in your clipboard an you click on the Add Key... button, it will automatically be pasted into the field. When you click OK there will be a File Select Dialog, just select where you want to save it. If you pasted a key with filename, the filename will be chosen, when you only pasted a key, you can chose the filename now.

Accepted are all (modern) Freenet keys:

<code>CHK@xxxxxxxxxxxxxxxxx/filename.ext</code>	(Content Hash Key, Files)
<code>SSK@xxxxxxxxxxxxxxxxx//subspaces/filename.ext</code>	(Signed Subspace Key, Freesites)
<code>KSK@filename.ext</code>	(Key Signed Key, easy to remember)

Adding Multiple Files:

If you copy multiple lines of keys and then click on Add Key you'll see the following Dialog. Normally you dont have to change much, its a lot easier then to copy many files one after another.

Right click on Add Key...

There are two options if you right click on the "Add Key..."-button.

Scan file(s) for keys...

This function can be very handy. If you downloaded a freesite with 24 pics on it. You click on this select the freesite HTML page and you'll get a dialog like you were adding multiple files to Fuqid. The parser will try to find all keys with filenames in the selected file(s).

Scan Frost messages for keys...

This tool works much like parsing files. But it is specially designed to help you with frost. (<http://jtcfrost.sf.net/>) In frost are many keys in the messages. This tool searches these keys and you can add the ones you like.

1. You search the Frost mainfolder
2. you chose the boards you want to scan and set a date range or leave it blank
3. you'll get a list of files posted files and can delete the ones you dont want.

Remark: the scanning may take a moment, if you selected many days and many boards.

The Upload / Download Tables

The Columns

Status

The status of a file says what fuqid is doing with it at the moment: possible states:

- Done (Already up or downloaded files)
- Ready (File is ready for upload, but the file has no thread)
- Waiting (File is ready for download, but the file has no thread)
- Downloading (Some threads are trying to download blocks)
- Uploading (Uploading the file)
- Decoding (FEC Decoding, the file be finished soon)
- Preparing (The file is beeing prepared, before it can be uploaded)
- Verifying (The file is complete, fuqid checks if the file is correct)

Priority

If you use the priority system (Settings / General / Download), you can set for each file a priority.

- Priority - : you don't use the priority system
- Priority *HIGHEST*: All available threads are split over the files with Priority HIGHEST, if blocks are left
- Priority *HIGH*: these files use twice as many threads as normal
- Priority *NORMAL*: All files are initially set to this
- Priority *LOW*: these files use only the half amount of threads than normal threads
- Priority *LOWEST*: these files only get download threads if no other blocks are available

Folder

The destination folder, if a file is finished it will be saved there (you can change that with the right click menu)

Filename

The file you are downloading will have this filename

MB

When you have the header of the file you will see how many megabytes this file has.

Date added

The Date when you began the download (you can set it to relative, then it counts how much time it took till now)

Key

This is the Key of the file, if you insert a file, and you have not set precalculate key, you will see the key at the end of insertion.

T.

This is the abbreviation for „Threads“. Here you can see how many threads are working on that file.

Progress

(i.e. 50% , 60) the first number is, how much of the file you already have downloaded. The second number is the number of blocks left you can download.

Blocks

This is a map of your file:

- black lines are working threads
- green lines are successfully finished blocks
- gray blocks are blocks freenet already tried to download

- red blocks are failed blocks, they will retry later
- aqua blocks are blocks you dont have but you can calculate them with FEC. If you have aqua blocks you downloaded a complete Segment. A Segment is 128MB, only the last Segment is smaller.

OK

Number of successfull blocks. (all together or since the last time you set it to zero)

Last OK

The date and time when the Last OK block came through from that file.

Failed

Number of failed blocks (it is normal that the count is very high)

Last Failed

The date and time when the last block failed from that file.

The context menu (right click on a file)

Download and upload have a similar menu, some functions have a hotkey, this is mentioned on the right side of the menu. Whatever you do with that menu, it will use it on the files you selected in the Table.

To select multiple consecutive rows, press SHIFT while selecting. If you want to select multiple files individually, press CTRL while you select with the mouse. To select all uploads or downloads, klick in the table, and press Ctrl-A.

Add key (download only)

Its like the Button „add key...“. If you have a key in your clipboard it will automatically use it.

Add file(s) (upload only)

Adding files with the standard settings

Add file(s) with additional options (upload only)

Adding files with choosing the insertformat.

Remove selected

The selected files will be deleted. This works only if no thread is working on the file. Normally you have do abort the download and remove it after that.

Freeze

This file won't get any threads anymore when you freeze it.

Unfreeze

The files selected are not freezed anymore

Unprepare (upload only)

this will set your file to unprepared, the FEC will be done from scratch again and all inserted blocks have to inserted again too. (usefull if an error happens during FEC)

Mark uninserted / Mark unretrieved.

Start from the beginning. You'll have to start from scratch, if you select this.

Retry failed blocks (download only)

If you are in state error and don't want to wait till the file begins again to try downloading, you can do that manually. You can also abort a file and use that option, if it is not in the error state.

Reinsert header block (upload only)

You can just reinsert the header block. This will be fast, and sometimes it helps others to get the header block.



download context menu

Abort download / Abort insert

This aborts all threads and the file will be automatically frozen after that.

Priority (download only)

Here you can set the priority discussed in the section above.

Change save folder... (download only)

Here you can change the folder your file goes to after it is completely downloaded, in case you put it in the wrong place when you added the file.

Open file (download only)

If a file is completely downloaded you can open it. The easier way is just to doubleclick on the row with the file.

Copy to clipboard

If you uploaded something, you probably want to share that. You want to copy it into Frost or your homepage. Fuqid has different methods to copy the key you got and other additional Info (like filesize and filename). You can also define you own formats in the settings.

Methods with example

- Copy keys with filename ([CHK@key/filename.ext](#))
- Copy keys only ([CHK@key](#))
- Copy Extended Information
File: filename.ext
Key: [CHK@key](#)
Bytes: 4053368
- Copy as HTML Tag (`filename.ext`)

Select all

This selects all uploads / or downloads. I'd rather use Ctrl-A.

Move up

It moves all selected rows one row upwards.

Move down

Just like the down button, it moves all selected rows one row downwards.

Graph Style (Download only)

You can chose between two styles. The new one is standard and looks like other p2p applications. The old one has for each block a single line, thats why it has a fixed size, and some are longer than others. But it works the same, it is just a bit older.

Statistics

You can clear the statistics or reset it to the overall values.

Configure columns

You can change the columns yourself. The config window which appears is quite simple. Fuqid displays all columns which are checked, you can set another name for the rows if you want, and change the order. All this is done with a rightclick. I had to search that too.

Relative / absolute

You can chose between relative and absolute where a column displays a date. Absolute is really a date (DD.MM.YYYY hh:mm:ss). If you select relative, fuqid will tell you how much time is gone since that event (00:03 ago = 3 minutes ago)

Refresh list

Should not be necessary, but you can update the view of fuqid with this.

Statistics

Active insert threads:	14/14	Up stats:	89,77 M	2,8 k/s	2,3 k/s	Inserts	Downloads	Log	?
Active download threads:	56/100	Down stats:	41,84 M	2,8 k/s	1,1 k/s				

Statistic panel

The Rows

The upper row is displaying the statistics for uploads

The lower row is displaying the statistics for downloads

The Numbers

The numbers on both rows means the same, once for Upload and once for Download

XX / YY:

You set up the number of threads you want to use for upload/download in the setting. Here you can see how many are set and how many are used. The first number is the actually used threads, and the second number is the maximum allowed threadcount.

XX MB

This is the total amount of uploaded/downloaded data in one session.

XX k/s

This indicates the average speed of downloading. The first number is the speed in the last 3 minutes, the second number is the average speed over the whole session.

Rightclick on the statisticsview

If you click with the right mouse button on the statistics view, you can see a menu:

Clear speed and file statistics: reset all fuqid statistics to zero

Clear speed statistics: session speed, session amount of data reset

Clear file statistics: Set statistics for each file to zero (in the table)

Reset files stats to overall stats: Set the statistics for each file to the overall values.

Additional indicators

Preparing insert The preparing insert indicator appears in the statistic panel if you are fec encoding a file for upload. The Fec-decoding message appears when a file is finished. Fuqid is calculating the missing blocks. If Fuqid finished that, the calculate checksum appears normally. The file is finished but fuqid checks if there are errors on the file.

FEC-decoding

Calc. checksum

BUG detected!
Check log.

The BUG detected message indicates an unknown error appeared. You can look in the log to see what happened exactly. You can right click to get rid of that message after you saw it.

Inserts

If you click on inserts you see a list of all your inserted files, if you activated insert logging in the settings.

Downloads

If you click on downloads you see a list of all your downloaded files, if you activated download logging in the settings.

Log

If you click on log you see the messages logged. (you can adjust the logging level in the settings)

?

This is a small about: about Fuqid.

Hovering over a file

If you don't move the mouse for some seconds, when your mouse is over a file, there will popup a small window with some useful information.

```
File: Dexy's Midnight Runners - Come On Eileen.mp3
Size: 3,87 M
Key: CHK@dmnL1zhNYInxUeI8IuA0GvdJ9jMMAwI,yP-kauev9ETyJsTZ-yEP-g/Dexy's Midnight Runners - Come On Eileen.mp3
2 blocks succeeded, last: 08.06.2004 18:58:55
443 blocks failed, last: 08.06.2004 19:16:17
 1 Unknown errors
 394 Data not found
 48 Route not found
```

There is an error count for each category. There are more than only the 3 categories above, but these are the most common. Sometimes you can say something about the state of freenet when you see what kind of errors are the most common.

Settings

Register General

General Settings

FCP: IP Adress

usually 127.0.0.1, if you connect to a freenet node NOT on your PC, change that.

FCP:Port

usually 8481, only change that if you played with the freenet settings

Automatic update check ever XX hours

Check for an update of fuqid, I recommend a long interval (168h = 1 week).

Transcript message log to Fuqid.log

The messages in the log can be saved to the file fuqid.log in the fuqid folder.

Log finished inserts to Fuqid-keys.log

Check this if you want to remember your files you've uploaded

Log finished downloads to Fuqid-Downloads.log

Check this if you want to remember your files you've downloaded

Logging Level

Debug logging:	Logs everything, not recommended
Normal logging:	Logs many messages, standard
Important messages only:	Logs the things you want to know, recommended
no logging at all:	No logs, for WINE User

Insertion

Threads

How many blocks should be inserted on the same time.

I recommend Modem (4 – 6 Threads) ADSL/cable (10 – 20 Threads) more than 1 mbit up-speed (40+)

HTL

Hops To Live. That changes from time to time, normally your node has a maximum, you can't overwrite that. It was 10 the last few builds now the maximum is 20 again. HTL = 25 should be alright. If you use fewer hops your file might be not as good retrievable, if at all.

Different HTL for Splitfile Header

Same as HTL, just for the header of a splitfile

Reinsert splitfile headers XX times

splitfile headers are not saved redundant like the rest of the file, if you insert it more than once, the others might get better results in downloading your file.

Treat single blocks like splitfile headers

Single blocks are like splitfile headers, no redundancy, so it is a good idea to treat them the same

Delete key from local node before uploading

If you upload a file you already uploaded, you'll get collisions **in** your node, for reinserts always check this box, this will ignore the keys in your node.

Include checksum in splitfile (recommend) [deprecated]

You can still insert without checksum, use the add file with options for that.

Get data blocks from original file

If you use that option. You cannot move the original file till the file is completely uploaded cause fuqid reads data from that file as long as it is uploading. But it uses only one third of memory in the Data folder.

Download

Threads

How many blocks fuqid tries to get the same time. This value has changed alot. If freenet works poor, you can try to change that value. If up or down, who knows. This values seem reasonable at the moment. Especially the broadband users should use higher values than it is standard:

Modem (10 – 20 Threads) ADSL/Cable (50 – 100) 10mbit+ (try 100+) be carefull, threads can have a deep impact on your system resources.

Initial HTL

The first try of freenet to get a block. Choose this quite low, it is essential you can go higher in later tries. (good value: 12-15)

Retries

Retry often, this is a good rule of thumb with Freenet (good value: 5 +)

Increase HTL by

Use small steps (good value: 1 or 2)

Heal %

you can help others to get the files you downloaded if you get back some of the blocks you got. Sometimes I don't really believe it helps much, but probably a bit. Don't use too much effort for this (5-10% is ok)

Heal HTL

use a small HTL, you just help, you dont reinsert. (good value: 5-10)

Delete key from local node before downloading

For uploads this is really a good option, but for downloads. I don't know, if you need it for something you can set that here.

Verify each downloaded block

Sometimes the files get corrupt, use this option, it won't use too much CPU power.

Try to get all missing blocks, even if too many failed.

It does what it says. And you should use it. You won't get a file the first try normally...

Use priority System (simultaneous download)

if you dont use the priority system, fuqid goes topdown through your downloads. This option allows you to download files in parallel instead of serial.

Download max XX files at once

you can allow how many files in parallel, or use the priorities (Very Low – Very High)

Retry failed downloads after XX min

As said above you wont get your file the first try, just try again, after some minutes (10 – 30 min)

Register Miscellaneous

Startup

Start activated

When Fuqid starts you dont have to click on activate, it is already activated.

Start minimized

Minimize the window at Startup

Clear file statistics

Each startup the statistics for the files start at zero.

Finished Inserts / Downloads



Indicate Tray Icon

The bunny blinks in green if select those options.

Play Sound

You can add your favourite sound for these events

Test

Test the sound you selected for the events

Tray Icon



Animated Tray Icon

This will animate the bunny when Fuqid is not active, nice sleeping bunny



Minimize to System Tray

If this is selected, fuqid will be only visible in the system tray when minimized.

Queue Colors

The queue indicates the status of the file with background-colors. Here you can change the standard-colors. To change a color double click on the field of the color you want to change.

You can change the colors for the State **Normal**, **Frozen**, **Finished** and **Error**. If you want the standard colors back click on the „**Default Colors**“ button which sets back these pair of colors

Register Troubleshooting

Normally you shouldn't change anything here

Disable builtin CHK-key calculation

Don't use the Fuqid CHK-calculation, use the Freenet CHK-calculation. (slow)

Disable builtin FEC en/decoding

Don't use the Fuqid FEC, use the Freenetnode FEC. (slow)

Do not show warning for bad setting

Some settings are encouraged to use, if you dont want an annoying message, click here.

Timeout for Insert/Download Threads

Sometimes Freenet doesn't give feedback about certain key you upload/download. If a key seems to be stuck more than 30 minutes (or what you enter) it will be canceled by Fuqid.

Register Clipboard Formats

The help included in fuqid should be sufficient, but I copied it into this document, it is much easier to read here, than in that small window.

written by mxbee

Format strings consist of a sequence of plain text and keywords.
Text has to be placed between doublequotes ("), keywords between percent characters (%).
To get the actual characters " % and \ in text, prefix them with \ (like: \" \% \).
(See below for a list of all allowed escape sequences).

Keywords:

General format: % ["leadtext"] [!] <token> ["trailtext"] %

<token> usually expands to a part of the key. (See below for a list of valid tokens)
If it is prefixed by a ! the raw key format is used, otherwise the key is URL-encoded.
For example: raw: CHK@.../my file #1.txt ; url-encoded: CHK@.../my+file+%231.txt

Leadtext and trailtext are plain text strings.
If the token evaluates to something other than an empty string,
these texts are placed before/after the token result.
Otherwise they are not used.

Some tokens need parameters. These follow the token, enclosed in parantheses.

Valid tokens:

fulluri	complete uri (example: freenet:SSK@gdahsg, sfhgsh/blah//index.html)
uri	same as %fulluri% but without the freenet: prefix
key	for CHK-keys: key without document name (other keytypes: like %uri%)
keytype	CHK,SSK,KSK (without @)
routingkey	routing key part
cryptokey	crypto key part
metainfo	metainfo part
docname	document name
metastring	metastring
size(["format" [, "dec.places" [, "punctuation?" [, "separators"]]])	filesize. formats: b,k,M,G

Interactive tokens:

askstring("title" [, "default"])%	ask the user for a string
askyesno("title" [, "default"])%	ask the user for a yes/no decision (default can be Y or N). If yes is chosen this expression evaluates to the leadtext, else to the trailtext.

If no default is specified, and multiple keys are formatted then the value entered for the previous key is used as default answer for the next key.

Special tokens for formatting multiple keys at once:

%nomulti%	if this token appears, attempts to format multiple keys are refused
%separator("text")%	defines the separator between formatted keys (default: newline)

Allowed escape sequences in text:

\n	carriage return + linefeed (= newline)
\r	carriage return
\t	tab
\\	the backslash character (\)
\%	the percent character (%)
\"	the quotes character (") (only needed inside keywords, see below)
\0x##	where ## are two hex digits: the character code with hex representation ##
\###	where ### are three octal digits: the character code with octal representation ###

Comma Separated Values: (List of selected files)

```
%!docname%%separator(",")%
```

List of files with filesize, separeted with „|“:

```
%!docname" "% %("!"size("M","2")" MB)"% %separator("|")%
```

File Info XML-like:

```
"<file>" "\n"" \t" "<description>" %askstring("Description")% "</description>" "\n"" \t" "<key>" %uri% "</key>"  
"\n"" \t" "<size>" %size("b")% " Byte" "</size>" "\n" "</file>"
```

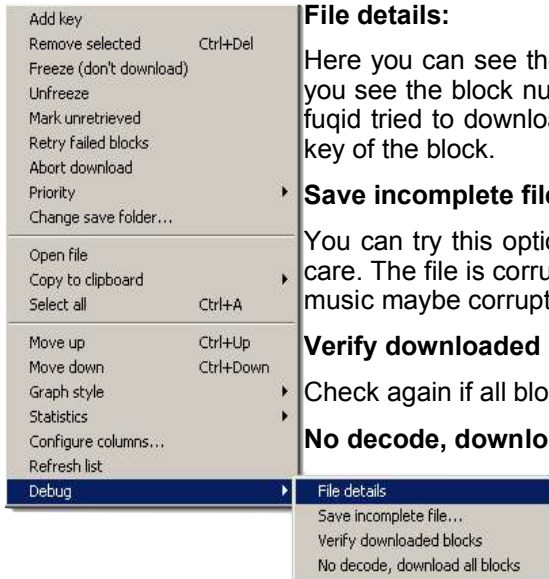
Command Line Parameters

This are advanced option (be carefull): you can start Fuqid in a certain state. At the moment there are two command line parameters for fuqid 1.5.

Debug Mode

```
fuqid.exe -debug
```

If you start Fuqid in debug mode there are some additional options in your right click Menu:



The screenshot shows a context menu with several sections. The 'Debug' option is highlighted, which opens a sub-menu containing 'File details', 'Save incomplete file...', 'Verify downloaded blocks', and 'No decode, download all blocks'. The 'File details' section explains that the file is split into blocks and provides information on block status and download attempts. The 'Save incomplete file...' option is described as a preview that may corrupt files. The 'Verify downloaded blocks' option is for checking the integrity of downloaded blocks. The 'No decode, download all blocks' option is used to bypass decoding for partially downloaded files.

File details:
Here you can see the file splittet up into the corresponding blocks. For each block you see the block number if a thread is working on it, if it is done, how many times fuqid tried to download the block, in which segment the block is and the individual key of the block.

Save incomplete file...
You can try this option to take a preview of the file you are downloading, but take care. The file is corrupt. Executables, packages might not work at all. Pics, vids and music maybe corrupted.

Verify downloaded blocks
Check again if all blocks downloaded are the correct ones (shouldn't be necessary)

No decode, download all blocks
If you don't want to finish after 2/3 of the downloaded blocks to decode a file you might use this option. Perhaps you try out how many blocks of the file are really reachable to see if a reinsert would be reasonable. For normal downloads this

option doesn't make much sense.

Active

```
fuqid.exe -active
```

This option still exists, if you want to start fuqid already try to download you can try to use this switch. But there is an option for that in the setting already. So this option maybe deprecated quite soon.

Behind the Scenes

Freenet Keys

There are 3 different Keys. Fuqid can just generate CHK@ keys. Why? Fuqid's intention is to upload big files, and not freesites. There are much better tools to generate freesites. FIW for example the most used utility for freesites.

The CHK is only dependant on the filecontent it is a hash of the content. Two files with the exactly same content will get the same filekey. The Filename part after the key can be arbitraly chosen, cause it doesnt get into the hash. It is only cosmetic.

SSK Keys are a bit different. You have to generate a Private/Public Keypair. The Public Key will be used to access the freesites later, and you have to insert with your Private Key. That way you are the only one who can write into your Subspace. But you can write different things in your Subspace. Edition Sites for Example. With SSK the Filename part is part of the Key, so it wont work without this part, or you get unexpected behavior. This is a difference to CHK Filenames.

KSK are like SSK but not secure. Everybody can write into this public key space.

The most popular KSK is [KSK@gpl.txt](#) it is most likely you won't get the gpl if you try to get this file. Cause everybody can insert KSK with this name and „overwrite“ it. It is not possible to overwrite anything in Freenet. But you can insert this KSK to nodes which dont have the gpl block yet, and insert something different.

If you get porn instead of the gpl, don't be too surprised, thats a game ;)

Forward Error Correction (FEC)

Forward Error Correction introduces redundancy into the files. It means even you dont get all Parts of the file you are still able to reconstruct this file. In Freenet it is done like that. Bigger files are splitted into chunks. The biggest chunks are 1 megabyte. If a File is lets say 100 MB. Fuqid splits it into 100 x 1 MB chunks. (the blue part in the picture) then there are generated 50 x 1MB additional FEC chunks. So you have to upload 150 MB.



Thats the bad news. The good news is: you just need 100 out of these 150 chunks to reconstruct the whole file.

The FEC-encoding and decoding you see in fuqid is the generation of these additional blocks or the calculation of the missing datablock (at the end you have 100 Blue blocks again). FEC is CPU intensive, you'll agree if you insert really big files.

Freenet Client Protocol (FCP)

Fuqid communicates like all other tools for freenet over the Freenet Client Protocol. FCP hides all the difficulties from freenet behind a simple to use Interface. You can use FCP also over the network to a foreign node, but FCP is not encrypted.

FAQ

I have a „Bug Detected“, what should I do?

If you can reproduce that error. Send the error message in your log, and say what you have done right before that Bug Detected appeared. Send this information to the fuqid-public board.

If you have an Error: **EFCreatError**. Try to avoid using the Explorer and browse the data directory. The explorer sets locks even when you are only browsing files. (It's Microsoft... *shrug*) (probably obsolete after 1.3.7)

Fuqid is faster than XX, Fuqid is slower than XX, I can get Files with XX but not with XY. Why?

All Tools use the Freenet Client Protocol to get the data from the node. The communication with the other nodes is only over your node. So you can get any file with any tool. Fuqid has a quite good strategy, which is simply: retry retry retry

When I set HTL to 300 its much faster, why?

Because you believe that, this is only psychological. HTLs which are greater than the node limit has simply no effect. PERIOD.

Why is FUQID not written in a Cool language like XX?

You speak only one language? US American?

I have so many failed blocks, is that normal?

Yes, you might have tenth of thousands of failed blocks.

What are DNF/RNF

RNF are Route Not Found and DNF are Data Not Found. These are the most common errors while downloading. RNF are the more evil ones, because they mean the request couldnt get routed somewhere, most probably because all nodes are crowded. (that means the Number of RNF should be smaller than DNF.) If that isn't the case there might be a problem. (Too few known nodes, wrong configured NAT) but it might be also only be bad luck, maybe the network is really very crowded at moment (Freenet announced on Slashdot) or the current build has problems (5090+ had this problem)

I insert a file, but where is the key?

It will appear after your file is completely uploaded. If you want to have the key before you begin with downloading then you have to go to the Settings and use the „Precalculate key and insert metadata first“ - option.

To be continued...

ABOUT

Fuqid-en-1.5/v0.9

Written June 2004 by Apophis, Update January 2005

Not yet corrected by a native english speaker ;) *hint*

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Based upon Fuqid 1.3.7 to 1.5 written by mxbee