mftp

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Contents

1 mftp **1**

1.1 mftp documentation . . . 1
1.2 Copyright and shareware conditions . . . 1
1.3 How to register . . . 2
1.4 How to reach the author . . . 3
1.5 What you need to run mftp . . . 3
1.6 How to install mftp . . . 3
1.7 Help on operation . . . 4
1.8 Local path string gadget . . . 4
1.9 Local popup drive list . . . 5
1.10 List of local files and directories . . . 5
1.11 Remote path string gadget . . . 5
1.12 Remote popup history list . . . 5
1.13 List of remote files and directories . . . 5
1.14 Cycle gadget: Transfer mode . . . 6
1.15 Direction of transfer/ Active list . . . 6
1.16 Toggle file/directory selection in active list . . . 6
1.17 Go to parent directory . . . 6
1.18 Refresh the active list . . . 7
1.19 Create a directory . . . 7
1.20 Copy files . . . 7
1.21 Move files . . . 7
1.22 Rename files/directories . . . 7
1.23 Delete files or empty directories . . . 8
1.24 View files . . . 8
1.25 FTP Output . . . 8
1.26 Close connection . . . 8
1.27 Open the about requester . . . 8
1.28 Terminate mftp . . . 9
1.29 Open connect requester . . . 9

1.30 A label for this host . . . 9
1.31 The name/address of the remote host . . . 10
1.32 Username to login with . . . 10
1.33 Password to login with . . . 10
1.34 Name of the account . . . 10
1.35 The desired directory to start . . . 11
1.36 Login as anonymous user . . . 11
1.37 Change the setup . . . 11
1.38 Enter your email address . . . 12
1.39 Default transfer mode . . . 12
1.40 Way to treat links . . . 12
1.41 Opens a list with ftp output . . . 13
1.42 Log ftp messages to a file . . . 13
1.43 Update directory contents automatically . . . 13
1.44 Popup a requester before deleting . . . 13
1.45 Does a DisplayBeep at the end of transfer . . . 13
1.46 Enable Directory caching . . . 14
1.47 Set size of transfer buffer . . . 14
1.48 Number of lines in ftp output . . . 14
1.49 Weight of the local filelist . . . 14
1.50 List of predefined hosts . . . 15
1.51 Edit selected entry . . . 15
1.52 Add new entry to list . . . 15
1.53 Remove selected entry . . . 15
1.54 Move entry up . . . 16
1.55 Move entry down . . . 16
1.56 Sort the list . . . 16
1.57 List of file patterns for binary transfer . . . 16
1.58 List of file patterns for ASCII transfer . . . 16
1.59 Save the setup . . . 17
1.60 Use the setup . . . 17
1.61 Cancel all changes . . . 17
1.62 What is still not implemented . . . 18
1.63 Known Bugs . . . 18
1.64 About MUI and AmiTCP . . . 18
1.65 Index . . . 19

Chapter 1

mftp

1.1 mftp documentation

```
                    mftp  -  MUI File Transfer Protocol

          Version 1.31         © by Michael Neuweiler  1994 - 1995
          14th November 1995           email: dolphin@zool.unizh.ch
```

mftp is a ftp client for the AmiTCP protocol stack.
Useful features as directory caching, adjustable transfer buffer size,
MUI interface and a lot more make it much easier to work with than with
standard command line ftp clients.

Copyright	Copyright and shareware conditions
Register	How to register
Author	How to reach the author
Requirements	What you need to run mftp
Installation	How to install mftp
Operation	Help on operation
ToDo	What is still not implemented
Bugs	Known Bugs
MUI / AmiTCP	About MUI and AmiTCP

1.2 Copyright and shareware conditions

Copyright and shareware conditions

Copyright:

Copyright © 1994 - 1995 by Michael Neuweiler

I know nobody reads this section (as I do).. but I can't help ;-)
Anyway it's short. This program is shareware - what means anyone
can use it as long as he/she/it doesn't gain profit out of it and
the usage has nothing to do with military or other stuff which might

endagnger other creatures. mftp may only be redistributed as complete archive with all copyright notices left intact.

Shareware:

You can use the program for as long as you wish without paying for it. The program is not crippled in any way but if you want to get rid off the requester at the startup you have to register.

Waranty:

The author won't take any responsability for any problems caused by mftp. Although it has been tested and optimised it is likely that there are still some bugs left which might crash your or the remote system and cause data loss.

1.3 How to register

How to register mftp

mftp is Shareware. The unregistered version is not crippled in any way. The only thing that is special is a requester at the program startup. It is not meant to really annoy you but to remember you to support the author with a shareware fee of about US $10.

I know some might say: "Bah, why send him 10$ if mftp works anyway ?!" Well I, I spent a lot of time programing this piece. I even had to completely rewrite it because there was a bug which made A4000 crash and which was not found (now I know what it was... :)

So please, please send 10 sFr. (Swiss Francs) or similar (i.e. US $10) and you will receive a keyfile which makes the requester appear no longer.

The safest thing would be a money transfer to my bank account:

```
Bank   :  Swiss Credit (Schweizerische Kreditanstalt)
Account:  0872 - 867811-40
Branch :  Zuerich, Wollishofen
```

Another way would be a money transfer to my postcheck account:

```
To     :  PTT Switzerland   (PTT Schweiz)
Account:  80-224959-4
```

Or just simply send me a bill by standard mail to :

Michael Neuweiler
Hauriweg 6
CH-8038 Zuerich
Switzerland

BTW: This address should also be refered to in the first two solutions.

I'll preferably send you the keyfile by email ! If I should send you
a disk please insert also an envelope with the right postage on it and
a disk.

1.4 How to reach the author

The Author

If you experience problems using mftp or have a suggestion what could
be included or if you just want to say how great you think mftp is...

Michael Neuweiler
Hauriweg 6
CH-8038 Zürich
Switzerland

email: dolphin@zool.unizh.ch
http://www.unizh.ch/~dolphin/mftp

Complaints will be redirected automatically to /dev/nil :)

1.5 What you need to run mftp

Requirements

Computer: Amiga 500 - 4000T

Memory : When AmiTCP is already running, 150kB should be enough.

OS : Kickstart 2.1 or better

Software: AmiTCP 3.0 or better (maybe 2.3 works too.. never tried it)
© 1994 by Network Solution Development Inc, Finnland
available on AmiNET or other sites.

MUI 2.3 or better
© 1992-94 by Stefan Stunz, Germany
available on AmiNET or other sites.

1.6 How to install mftp

Installation

Workbench: Simply drag the mftp icon to a place you want to.
Copy the catalog of your choice to LOCALE:Catalogs/language

CLI : Copy the executable to a path of your choice.
i.e.: copy mftp amitcp:

```
                copy mftp.info amitcp:
            Copy the catalogfile to the according directory.
             i.e.: copy deutsch/mftp.catalog LOCALE:Catalogs/deutsch

            If the file 'mftp.key' is included, copy it to 's:'

That's it ! (Straightforwad, isn't it ? :)

You can start mftp from CLI or Workbench... as you wish.
To be on the save side you should use a stack size of
about 5000 Bytes. I think the maximum mftp uses is around 3000 Bytes.
```

1.7 Help on operation

```
Operation


When you start mftp a window should appear which looks simmilar to this:

  local path
O   binary    remote path
O
                        -->
                        toggle
                        parent
                        refresh
                        mkdir
                        copy
                        move
                        rename
                        delete
                        view


    Connect
   Close
  Setup
  About
  Exit
```

1.8 Local path string gadget

```
Local path string gadget


 This string gadget contains the current directory of your computer.
 You can enter a path manually but usually this is not necessary.
 To its right you'll find a popup gadget which offers a list of available
 drives and assigns.
```

1.9 Local popup drive list

Local popup drive list

If you click on this gadget a list which contains all available drives and assigns will popup. You can select one by simply clicking on a entry once.

1.10 List of local files and directories

List of local files and directories

This list contains the files and directories in the current path on your local machine. Double click on a directory to enter it. If you double click on a file you start the filetransfer (only possible when connected).

1.11 Remote path string gadget

Remote path string gadget

This string gadget contains the current directory of the remote computer. You can enter a path manually but usually this is not necessary. To its right you'll find a popup gadget which offers a list of the directories you've already been in during this session.

1.12 Remote popup history list

Remote popup history list

If you click on this gadget a list which contains all the directories you already visited during the current session. It is a history list. You can select a directory by simply clicking on a entry once.

1.13 List of remote files and directories

List of remote files and directories

This list contains the files and directories in the current path on the remote machine. Double click on a directory to enter it. If you double click on a file you start the filetransfer.

1.14 Cycle gadget: Transfer mode

```
Cycle gadget: Transfer mode


 This cycle gadget lets you choose the transfer mode.
 Available modes are:

 binary:  No changes are made to the file.
          You will get a 1:1 copy. (mostly used)

 ascii :  This mode is useful for transfering text files.
          Depending on the direction cr/lf are transformed to lf or
          vice versa.

 auto  :  mftp will use the ascii and binary pattern list to
          determine if binary or ascii mode should be used for a file.
```

1.15 Direction of transfer/ Active list

```
Direction of transfer/ Active list


 This button lets you chose the active list. The buttons below this
 one have only effect on the list the arrow points away from.
 The arrow also indicates the direction of the transfer for copying
 or moving files.
 It changes its state automatically if you click on a file in the
 list which wasn't active.
```

1.16 Toggle file/directory selection in active list

```
Toggle file/directory selection in active list


 This toggles the selection of files and directories in
 the active list. The ones which were
 selected become deselected and the other way around.
```

1.17 Go to parent directory

```
Go to parent directory


 Change to the parent directory of the active list
 and get its contents.
```

1.18 Refresh the active list

```
Refresh the active list
```

```
 Refresh the file/directory listing which is currently active.
 If the right (remote) listing is active and the
 directory caching is on, mftp will clear the directory's cache
 and  retrieve it from the remote host again.
```

1.19 Create a directory

```
Create a directory
```

```
 Create a directory in the active list.
 A requester will ask you for its name.
```

1.20 Copy files

```
Copy files
```

```
 This copies all selected files in the direction the arrow points.
 Only files will be copied; you can't copy directories.
```

1.21 Move files

```
Move files
```

```
 This moves all selected files in the direction the arrow points.
 Only files will be moved; you can't move directories.
 The files at the source will be deleted (only if the
 transfer was successful) !!
```

1.22 Rename files/directories

```
Rename files/directories
```

```
 Rename all selected files and directories in the active list.
 A requester will ask you for each filename.
```

1.23 Delete files or empty directories

```
Delete files or empty directories

 Delete all selected files and empty directories. You will be prompted
 if you really want to do this unless you didn't deselect confirm delete
 in the setup.
```

1.24 View files

```
View files


 View the contents of the selected files. The default viewer is
 SYS:Utilities/More but you can override that if you set the
 environment variable PAGER (env:PAGER) to the viewer of your
 choice. If you do so, you have to see to it that this viewer
 doesn't detach itself (i.e. -keepIO).
 Be careful if you select more than one file. mftp will start a
 separate process for each and this will popup as many viewers as
 files were selected.
```

1.25 FTP Output

```
FTP Output


 This is a list of the ftp output.
 You can change the number of lines in the setup.
```

1.26 Close connection

```
Close connection


 Close an already existing connection.
 This flushes the directory cache.
```

1.27 Open the about requester

```
Open the about requester


Shows version information and address of the author.
```

1.28 Terminate mftp

Terminate mftp

Closes an eventually existing connection and exits.

1.29 Open connect requester

Open connect requester

Opens a requester to enter data which will be used to connect
to a remote host or adding one to the host list (in setup):

Hostname	A label for this host
Address	The name/address of the remote host
Username	The username you login with
Password	The according password
Account	Account name (usually not needed)
Directory	The desired directory to start
Anonymous	Login as anonymous user

If you click on "Okay" mftp will try to establish a conntection
to the given host. A status display will appear and inform you
about the progress and giving you also the ability to abort.
If mftp is not able to get a connection it might take some time
until it returns to normal operation. Although it appears like
it crashed it didn't. It's only a timeout of about one or two
minutes.
"Abort" will cancel the reqeuster without further action.

1.30 A label for this host

A label for this host

If you use the connect requester only for establishing a
connection this field is of no use.
But, in the setup it is possible to enter a list of hosts
which can be recalled later by the popup gadget to the right.
In combination with this list the field has the function of
a label for the entry.

Examples you could enter :

- Mike's computer (root)
- Mike's computer (mike)
- AmiNET at wustl
- AmiNET at eunet

1.31 The name/address of the remote host

```
The name/address of the remote host


 In this field you have to enter the name or the IP-address
 of the host you wish to connect to.

 Examples:

    ftp.wustl.edu
    ftp.eunet.ch
    130.59.10.40
```

1.32 Username to login with

```
Username to login with


 In case you're not going to login as anonymous user you have
 to enter the username you want to use.
 If you select anonymous this field will become
 ghosted as mftp will user the username "anonymous" automatically.

 Exapmles:

    dolphin
    root
    guest
```

1.33 Password to login with

```
Password to login with


 Here you have to enter the password which corresponds to the
 given Username. If you select anonymous
 this field will become ghosted as mftp will use your email address
 as password automatically (has to be set in the setup).
```

1.34 Name of the account

```
Name of the account


 This field holds the name of your account. Usually you don't
 need to enter anything here as it's obsolete - mftp still
 supports it.
```

1.35 The desired directory to start

The desired directory to start

Enter the path of the directory you wish to be
in after login. This is useful to jump to a
directory that i.e. holds amiga files.

Expamples:

```
~aminet
/pub/software/amiga
```

1.36 Login as anonymous user

Login as anonymous user

If you select this field Username, Password and Account
will become ghosted and you will login as anonymous user.
This way you don't have to enter the username "anonymous" and
your email address as password. mftp will use the email address
that was given in the setup as password.

1.37 Change the setup

Change the setup

This opens a window which offers three different pages:

General:

```
        email address             Enter your email address
        Default transfer          Default transfer mode
      ~ Treat link as             Way to treat links

        Show ftp output           Opens a list with ftp output
        Log ftp messages          Log ftp messages to a file
        Auto update               Update directory contents automatically
        Confirm delete            Popup a requester before deleting
        Transfer bell             Does a DisplayBeep at the end of transfer
        Directory caching         Enable Directory caching

        Transfer buffer           Set size of transfer buffer
        History lines             Number of lines in ftp output
        Local filelist weight     Weight of the local filelist
```

Hosts:

```
        List       List of predefined hosts

        Edit
        New        Add new host to list
        Remove     Remove selected host
        Up         Move selected host up
        Down       Move selected host down
        Sort       Sort the list


 Auto Recon:

        Binary patterns     List of file patterns for binary transfer
        ASCII patterns      List of file patterns for ASCII transfer

        Edit                Edit the selected entry
        New                 Add a new pattern to according list
        Remove              Remove the selected entry from the list


                  Save               Use              Cancel
```

1.38 Enter your email address

```
Enter your email address


 Enter your email address here. It will be used as password
 when you login as anonymous user.
```

1.39 Default transfer mode

```
Default transfer mode (default: binary)


 Set which transfer mode you want to use when you start
 mftp the next time.
```

1.40 Way to treat links

```
Way to treat links (default: automatic)


 Select wheter you want links on the remote host to be listed
 as files or directories.
 If you choose 'auto' mftp does a short query on the remote
 host for each link. Depending on the amount of links this can
 take some time. In this mode mftp is also able to determine the
 correct size of a link !
```

1.41 Opens a list with ftp output

```
Opens a list with ftp output (default: off)


 If selected there appears a list in the main window which
 shows all the responses we get from the remote host.

 NOTE: If you use NTSC 600x200 you might want to deselect
       it so MUI won't switch to a smaller, unreadable font.
```

1.42 Log ftp messages to a file

```
Log ftp messages to a file (default: off)


 This function is not supported yet.
```

1.43 Update directory contents automatically

```
Update directory contents automatically (default: on)


 If selected mftp always updates the listing when you change
 the directory on the remote host (should usually be on).
 When deselected you have to do a manual refresh every time
 you change a directory or connect to a host.
```

1.44 Popup a requester before deleting

```
Popup a requester before deleting (default: on)

 If selected you must confirm everytime when you want to
 delete something. Otherwise every delete will delete
 the files IMMEDIATELY !!
 So be careful if it's not selected !
```

1.45 Does a DisplayBeep at the end of transfer

```
Does a DisplayBeep at the end of transfer (default: on)


 Every time a transfer is complete mftp will do a
 DisplayBeep which will flash your screen or play
 a sound (as selected in your preferences/sound).
```

1.46 Enable Directory caching

```
Enable Directory caching (default: on)


 Enables directory caching. This way mftp doesn't need to
 get the entire file list from the remote host when you
 change to a to a directory you have previously been in.
 mftp uses a directory in 'T:' to save every directory.
 (If you run out of memory you might want to delete theese
 files - NOT the directory !! - because mftp doesn't check
 if there is enough room.
 The files will automatically be deleted if you close a
 connection.

   If enabled it speeds up changing directories a lot !
```

1.47 Set size of transfer buffer

```
Set size of transfer buffer (default: 32768)


 Set the size in bytes for the transfer buffer. It is used
 while receiving and sending files. If you think mftp
 accesses your disk too often while transferring, just
 enlarge the buffer.
 mftp will access the disk always when 'x' bytes are received.
 So be careful not to set a very high value. If you receive a
 file and the transfer fails you loose the data that hasn't
 been written yet.

 Approx. 32 kB is a reasonble value here for dialup connections.
```

1.48 Number of lines in ftp output

```
Number of lines in ftp output (default: 50)


 Set the amount of lines which will be displayed in the
 ftp output list. If you're short with memory I suggest
 not to use a value higher than 50.

 NOTE: mftp will write the lines even if you switched
       off the ftp output and therefore this value
       still determines the memmory usage.
```

1.49 Weight of the local filelist

Weight of the local filelist (defualt: 100)

Set the weight of the local filelist in percent. If it's lower than 100 the remote filelist will grow bigger and vice versa.

NOTE: This change doesn't take effect immediately ! You have to restart mftp first.

1.50 List of predefined hosts

List of predefined hosts

With this list you can predefine hosts which will be easily accessible in the connect requester later (in the popup list).
A double click on an existing entry has the same effect as Edit.

1.51 Edit selected entry

Edit selected entry

"Edit" will open a requester where you can edit the currently selected entry.

1.52 Add new entry to list

Add new entry to list

This will add a new entry to the list and let you enter the required data in a requester which pops up.

1.53 Remove selected entry

Remove selected entry

This removes the selected entry from the list.

1.54 Move entry up

```
Move entry up


 Move the selected entry on step upwards in
 the list.
```

1.55 Move entry down

```
Move entry down


 Move the selected entry on step downwards in
 the list.
```

1.56 Sort the list

```
Sort the list


 Sort the list alphabetically.
```

1.57 List of file patterns for binary transfer

```
List of file patterns for binary transfer


 Here you can specify a list of file patterns which will
 be used to determine if mftp uses binary mode to transfer
 a file (in case "auto" is selected as transfer mode).
 Standard amiga filepatterns are recognized.

 Examples:

    *.lha
    *.lzh
    *.zip
    *.exe

 NOTE: If a filename would match a pattern in the binary
       list and the ascii list mftp will use ascii
       mode !!
```

1.58 List of file patterns for ASCII transfer

List of file patterns for ASCII transfer

Here you can specify a list of file patterns which will
be used to determine if mftp uses ASCII mode to transfer
a file (in case "auto" is selected as transfer mode).
Standard amiga filepatterns are recognized.

Examples:

```
*.txt
*readme
*.doc
```

NOTE: If mftp can't find a match in this list it will
use binary mode.

1.59 Save the setup

Save the setup

This will save the setup permanently (to envarc:mftp.config).
The current directory on the local machine (yours) will also
be saved so the next time you start mftp you are back in your
donload directory or whatever you wish.
If you changed the size of the transfer buffer mftp tries to
allocate the memmory.

NOTE: It is not mftp's job to save the properties of the windows.
Please refer to the MUI manual on how to acomplish that.

1.60 Use the setup

Use the setup

This will save the setup to env:mftp.config only.
So if you perform a reset the changes will be lost.

NOTE: If you changed the size of the transfer buffer
mftp tries to allocate the memmory.

1.61 Cancel all changes

Cancel all changes

If you select "cancel" the setup will not be saved

in any way and mftp reloads the last used or saved
configuration (env:mftp.config).

1.62 What is still not implemented

What is still not implemented

* AREXX support

* The abort button in the connect status window should produce a faster
  effect, I know..

* Some people would like menus too instead of theese nice buttons at the
  bottom... :)

* Individual settings for each predefined host would be interesting too.
  Somehow in the same manner as term does.

* Optimizing the handshake with the remote host.
  mftp does too much at the moment - could be faster.

If you have any suggestions what else could be included, please email me !

1.63 Known Bugs

Known Bugs

There are no known bugs at the moment ! :)

1.64 About MUI and AmiTCP

MUI & AmiTCP

MUI info:

This application uses MUI - MagicUserInterface
© Copyright 1993/94 by Stefan Stuntz

MUI is a system to generate and maintain graphical user interfaces. With
the aid of a preferences program, the user of an application has the
ability to customize the outfit according to his personal taste.

MUI is distributed as shareware. To obtain a complete package containing
lots of examples and more information about registration please look for
a file called "muiXXusr.lha" (XX means the latest version number) on
your local bulletin boards or on public domain disks.

If you want to register directly, feel free to send DM 30.- or US$ 20.-
to Stefan Stuntz, Eduard-Spranger-Straße 7, 80935 München, GERMANY

AmiTCP info:

AmiTCP/IP is propiertary, copyrighted product of the NSDi - Network Solutions Development Inc, Finland.

1.65 Index

Index