Amster

Jacob Laursen

COLLABORATORS

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ACTION	NAME	DATE	SIGNATURE
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REVISION HISTORY

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Contents

Chapter 1

Amster

1.1   Amster documentation

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              Amster v0.8 User Manual
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           Introduction
            - Introduction to Amster

           License
            - License information

           Requirements
            - Software requirements

           Installation
            - How to install Amster


           Main window
            - Using Amster

           Messenger window
            - Chatting with other users

           Chat window
            - Chat channel windows

           Download window
            - Downloading files

           Upload window
            - Uploading files

           Library window
            - Shared files

           Debug window
            - Debug/verbose information
```

```
              Configuration
               - Configuration options

              Navigator
               - Server navigator

              ARexx interface
               - Available ARexx commands


              FAQ
               - Frequenty Asked Questions

              History
               - What's new in this version

              Known bugs
               - Existing problems

              Authors
               - Contact information

   Amster website:
      http://www.amiga.dk/amster/

   Amster mailing list:
      http://www.egroups.com/group/amster/

   Amster IRC channel:
      #Amster on IRCNet
```

1.2 Introduction

Introduction

Napster is an MP3 sharing community using a special client that features things like chatting, searching, downloading, notify lists, etc. If you want to read more about Napster in general, go to http://www.napster.com. Here you can also download the official Windows version of the client.

Amster is an Open Source MUI based Napster client for AmigaOS.

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Napster is a trademark of Napster, Inc.

Windows® is a registered trademark of Microsoft Corporation

1.3 License

License

Amster (Amiga Napster client)

Copyright © 1999-2000 Gürer Özen

Copyright © 2000 Jacob Laursen

Amster is released under GPL. You can find a copy of GPL at http://www.gnu.org/copyleft/gpl.html

MUI is copyright © Stefan Stuntz

Lamp is copyright © Maik Schreiber

No reverse engineering was done to make this client, it's fully based on protocol documentation by the Linux community.

1.4   Requirements

Requirements

* AmigaOS 3.x

* MUI 3.8 or higher

* NList.mcc V19.97+ (MUI class)

* Textinput.mcc V26+ (MUI class)

* TCP/IP stack (Genesis, Miami 2.1p+ or MiamiDx)

Amster will also use Lamp.mcc 11.1+ if available. TWFmultiLED 12.6+ will be used if chosen in prefs or when Lamp.mcc 11.1+ is not available. Neither of these classes are required to run Amster.

For recompiling sources

* SAS/C 6.50+ Commercial

* MUI Developer Kit Aminet, dev/mui/mui38dev.lha

* Miami Developer Kit http://www.nordicglobal.com

* FlexCat Aminet, dev/misc/FlexCat.lha

* OpenURL includes Aminet, comm/www/OpenURL30.lha

* Lamp.mcc includes Aminet, dev/mui/MCC_Lamp.lha

* NList.mcc includes Aminet, dev/mui/MCC_NList0_89.lha

* TWFmultiLED includes Aminet, dev/mui/MCC_TWFmultiLE.lha

* Textinput includes ftp.vapor.com/pub/misc/

1.5   Installation

Installation

Amster comes in three archives:

Amster-main.lha Main installation archive with executable,

documentation and scripts. This archive is required.

Amster-locale.lha Foreign language support. This archive is optional.

Amster-source.lha Full C source. This archive is optional.

Unarchive the archives into a temporary directory and double-click on the Install icon. The installer script will then guide you through the installation.

Important: Before installing this version, save your settings with Amster version 0.7a! Otherwise you'll lose your event configuration.

When upgrading from pre-0.7 versions, please note:

- Amster.default is now called Amster.shares.

- Some events needs reconfiguration.

Amster keeps its preferences in ENVARC: (Amster.prefs).

1.6 FAQ

```
FAQ

Q. I can't find the same MP3's after reconnecting?
A. Napster has many MP3 servers, and they're not linked together. If you
   enable "Cache servers" in the configuration (Options/Server list), you
   can find the same server using the navigator window (from the Amster
   menu).

Q. Why do my own shared files not appear in the search results?
A. They are filtered out by the server. If you want to check if your
   library really have been uploaded, you can browse your own files - just
   enter your username in the Hotlist window and press 'Browse'.

Q. I can't download my own shared files - Amster says we're both
   firewalled?
A. Amster users can't download from Amster users. The reason is that
   Amster currently only implements two out of the four transfer methods.
   So for now Amster can't download from/upload to other users that are
   behind firewall (including Amster users).

Q. I often get "No files found" when browsing a user's files, even though
   I know he's sharing songs. How come?
A. The user is probably on another server than you. Napster currently do
   not link all their servers - there's nothing to do about this.

Q. Amster exits with "cannot create mui app!" message.
A. Check your MUI installation and make sure you have a reasonable amount
   of RAM available.

Q. When creating my own account and logging in for the first time,
   I get "Invalid password" from server.
A. Username is already taken - try another.

Q. When starting Amster, I get the error "Failed to open main window!".
A. If you're running a very low resolution, this may be the problem.
   Solution: Increase the screen size. When you've done that you can save
   some space by disabling the icon panel (from the Settings menu).

Q. Amster sucks. Are there any other Napster clients for Amiga?
A. Yes, aNapster (http://home.no.net/~jsiv/?view=anapster/main) and the BWap
   port, which can be found on Aminet.

An online up-to-date version of this FAQ is available at
http://www.amiga.dk/amster/index.html#faq
```

1.7 Main window

Main window

This is the window that you'll see when starting Amster. It consists of three parts:

1. Searching

Song

Enter the keywords you want to search for here. They can be part of the song title, the artist or both. Each keyword must be seperated with a space. Press return to perform the file search.

Max.

Maximum number of hits to return to the result list. This may be any number from 1 to 100. (Default is 100)

Advanced search options

Press the little popup gadget right next to the "Max." string gadget to see these options. The popup is typically pictured as a magnifying glass.

Search

Perform the file search based on the above mentioned criterias.

Result list

The '@' to the left indicates link speed intervals (only available when Lamp.mcc or TWFmultiLED is installed):

Black = Unknown

Red = Modem

Yellow = ISDN/cable

Green = DSL/T1+

If the time is shown in italics, it's because the time calculation by Amster and the sharing client differs more than 3%. This may be due to a huge ID3v2 tag or simply a bug in the other client.

Clear / Clear all

Remove all or selected search results from the list. "Clear all" is only useful when "Clear list before new searches" is disabled in the configuration (Options).

Download

Download selected file(s). You can also double-click on a file to download it.

Paths

If selected, full paths will be shown in the result list.

2. Connection panel

Status line

This contains information about number of shared songs on the server and how many gigabytes that is. It will automatically update every now and then. The lamp to the right indicates connection status: green = online, yellow = connected, red = offline, black = lost/no connection.

Connect

This will get the optimal server from the main server and then connect to it. If you have configured an MP3 server, you will connect directly to this one.

Disconnect

Disconnects you from the server.

Reconnect

If you have configured a main server, pressing this button will disconnect, reconnect and find a new optimal server. This will usually connect you to a new server with other users and files. So if you didn't find what you searched for, reconnect.

3. Icon panel

Info

Open/close a debug window . Here you can see a log of events, such as established or failed connections and welcome messages.

Messenger

Open chat window - chat not fully implemented yet.

Multi-chat

Open a new channel window .

Download

Open/close download window .

Sharing

Open/close library window .

Config

Open/close configuration window .

1.8   Advanced search options

Line speed must be...

If "Not important" is selected in the first cycle gadget, this search option is ignored. Otherwise you build a criteria with the two cycle gadgets, like this:

"Line speed must be" + "At Least" + "ISDN 64K"

This statement will only give you results with line speed equal to or higher than 64 kbps.

Bitrate must be...

This will decrease the number of search results by demanding a certain bitrate in the MP3 encoding. It works the same way as the "Line Speed must be..." option.

Frequency must be...

Like the other two advanced search options.

1.9   Debug window

Debug window

This window will gather information returned by the server, and debug information. This information is more verbose than the information displayed in the status line in the main window. When filing in bug reports , please include details from this window.

Clear

Press this button the clear the window contents.

1.10 Messenger window

Messenger window

From this window you can communicate with other users. Available commands at the moment:

/MSG <nick> <message>

to send a message to another user. And:

/WHOIS <nick>

to get userinfo from another user.

1.11 Amster Chat

Chat window

You can open as many chat windows as you like. In each window you can join a chat channel, just like when using IRC. The available commands are:

/LIST

to get a list of available channels on the server. A new window will pop up with the list.

/JOIN <channel>

to join the channel.

/LEAVE

to leave the channel in that window.

1.12 Download window

Download window

This window contains a list of all downloads.

The four buttons have the following meaning:

Play - Spawns external MP3 player - this is configured in the

Events section as "MP3 player". It's possible to spawn the

player before the download is finished. If your Internet

connection is fast enough, you can listen to music while you

download it!

Abort - Cancel download of the selected file.

Resume - Start the transfer of the selected file again. A resume requester

will show up asking you if you want to proceed.

Cleanup - This will remove all finished/aborted downloads from the list.

Amster download the files from the top down: The files at the top have the highest priority. You can change the order by dragging queued files up in the list.

You can also double-click files to play them (or add them to a playlist). To do this set up the "Double-clicking download file" event to an appropriate script.

Resume

If the file to download already exists in your download directory, a resume requester will show up with some of the following choices (depending on an MD5 checksum comparison, which will be shown in the requester):

Resume - Continue download of the existing file.

Rename - Download the file with a new file name.

Overwrite - Overwrite the existing file.

Cancel - Cancel the download.

The MD5 checksum and filesize of incomplete files are saved in the file comment. Tip: If you find a file you want to resume, you can rename your existing file to the same name, before proceeding. If the MD5's do not match, but you are sure it's the same file (or are willing to take the chance, based on filesize comparison), you can simply delete the file comment, which will reduce Amster's resume denial to a resume warning.

Errors

Unfortunately every download will probably not proceed as planned. Here's a list of some of the possible errors and their meaning:

Logged out - The user logged out and the requested file is no longer

available

Teaser - The user sharing the file currently has a queue

limit of 0, which means that nobody can download

from the user at the moment.

Busy - The user is currently busy serving other users, and

you ran out of retries .

Timed out - The download was caught by Amsters garbage collector,

because the request wasn't fulfilled within 2 minutes, and

thus considered timed out. Use "Resume" to try again.

1.13   Upload window

Upload window

This window contains a list of all uploads.

The two buttons have the following meaning:

Abort - Cancel upload of the selected file.

Cleanup - This will remove all finished/aborted uploads from the list.

1.14   File sharing

Library window

Here you can add/remove files to your library of shared files. The library will always be synchronized with the server, so there's no need to speculate about updating it manually. You can drag'n'drop files into this window to add them.

The buttons

Add - Add files to your library.

Add recursive - Add files recursively. A requester will ask for the

directory from which to start the recursion.

Remove - Remove selected files from your library.

Remove all - Remove all files from your library.

The library menu

Load... - Load another library.

Merge... - Keep current library and load (add) another one.

Save - Save current library in currently used file

(default is "Amster.shares").

Save as... - Save current library in another file.

Don't forget to save your library - this is not done automatically, unless you have "Auto-save library on program exit" enabled in the configuration (Options).

1.15   Configuration

```
        Configuration


  User
   - User account information

  Options
   - Amster options

  Events
   - Program events

  Advanced
   - Advanced configuration
```

1.16   User settings

If you haven't registered a Napster account yet, just enter your user data in this section and connect.

Username

This must be a unique username. If you get a "wrong password" error when trying to connect, the username is probably already taken. Solution: Try another one.

Bypass registration

When this option is enabled, Amster won't try to create an account for you when logging in and thus speed up the login procedure. Do NOT enable this option unless you already have an account. Remember that most OpenNap servers are independent of each other, forcing you to create your account on each one of them (unlike the Napster servers).

Password

Don't forget to save the configuration and/or write down your password.

E-Mail

Enter your e-mail address here.

Update - Click here to update your e-mail address on the server.

You must be connected to a server to perform this operation.

Note: This feature is not implemented in the Napster servers

yet!

Connection

Select your kind of Internet connection here. It's shown when other users requests your user information, when you're on their hotlist, and when seeing your shared files amongst the search results.

Download path

All downloaded files will be saved in this directory.

Filename length

All filenames exceeding this limit will be truncated and have the ".mp3" postfix appended. For FFS set this to 30, for PFS2 to 31 and for PFS3/SFS to 100.

1.17 Program options

Auto-connect on program startup

If this option is enabled, Amster will automatically connect to the Napster server when the program is started. Otherwise you'll manually have to press the 'Connect' button in the main window.

Clear list before new searches

When performing new searches, Amster can either accumulate the displayed results or clear the list each time. Enable this option if you want the latter.

Always ask filename

Enable this to always have a file requester pop up before downloading a file. This way you'll have a chance to rename the file in a meaningful way instead of letting Amster truncate the name automatically.

Add downloaded files to library

Automatically add downloaded files to your shared library.

Auto-save library on program exit

Automatically (and silently) save sharing library on program exit (will only write the file if it has changed).

Auto-cleanup successful uploads

Automatically remove uploads from the upload window once they're successfully transfered.

Server list

This list is shown when you open the navigator window.

Don't remember - Don't save the list to a file when quiting Amster.

Save on exit - Save the server list on program exit.

Cache servers - Automatically add new servers to the list. This includes

servers returned by the meta server and servers you

manually type in. When this option is enabled, the list

will automatically be saved on program exit.

Lamps

Select which MUI lamp class you wish to use. You will have to restart Amster for this to have effect.

1.18 Program events

Events

In this section you can define what Amster should do when one of the listed events occur. For each event you can select a sound file to play and/or a command to execute. Make sure you have a datatype installed for playing your sound files.

%a will be replaced with the name of the ARexx port (e.g. "AMSTER.1") for all events.

Startup

Exit

Connect

%s = server, %p = port

Disconnect

Download started

%f = filename

Download finished

%f = filename

Download error

%f = filename

Tip: If you want incomplete downloads kept in a special directory you can setup a command like this:

Rename "%f" <download path>Incomplete/

Download aborted

%f = filename

Upload started

%f = filename

Tip: If you want to monitor ongoing uploads you can have the Upload window opened automatically when new uploads start - like this:

RexxC:RX "address '%a';'WINDOW UPLOAD OPEN'"

Upload finished

%f = filename

Upload error

%f = filename

Upload aborted

%f = filename

Incoming message

%u = username, %m = message

Double-clicking library file

%f = filename

Double-clicking download file

%f = filename

Useful to e.g. play files immediately when double-clicked. MP3 Player event (see below) can then be set up to add the file to the playlist instead.

MP3 player

%f = filename

This event occur when 'Play' is pressed in the download window . Example scripts are included in the Rexx/ directory for spawning some of the most popular MP3 players for AmigaOS. Example script setup:

RexxC:RX Apps:Comm/Amster/Rexx/PlayAmigaAmp.rexx PLAY "%f"

1.19   Advanced settings

Meta server / Port

This is the server Amster will connect to in the first place to get the address of the optimal Napster server. Default is server.napster.com / 8875. Each time Amster connects to this server, it is most likely to receive a different server address than last time. Don't mess around with the meta server address unless you know what you're doing.

MP3 server / Port

If you write anything here, Amster will attempt to connect directly to this server, instead of getting the optimal server from the main server first. Usually you don't want to do that.

Listening port / Behind firewall

Enter a port number you want to use for the sharing server here. If you're behind a firewall and can't allow connections to any ports, select this option. Note: Not used yet!

Concurrent downloads / Pri

Maximum number of simultaneous downloads. The rest will be queued and downloaded later. Pri sets set task priority.

Concurrent uploads / Pri

Maximum number of simultaneous uploads. The rest will be rejected. Pri sets the task priority.

Queue limit retries / Delay between retries

Number of times to attempt to download a queued file. The delay is the number of seconds between each attempt. Don't set this too low, or you might get kicked or banned from the server.

1.20   Available ARexx commands

```
Name of ARexx port: AMSTER.<x> where x is the instance number of the
program.

CONNECT

 Syntax:    CONNECT SERVER/K

 Function:  Connects to a server (the same as pressing the "Online" button).

 Input:     SERVER - Optional server to connect directly to.

 Result:    RC = 0  -  All OK


DISCONNECT

 Syntax:    DISCONNECT

 Function:  Disconnects from a server (the same as pressing the "Offline"
```

```
                button).

 Result:    RC = 0  -  All OK


DOWNLOAD

 Syntax:    DOWNLOAD NUM/A/N

 Function:  Download song.

 Input:     NUM - song number (returned by the SEARCH command).

 Result:    RC = 0  -  All OK
            RC = 9  -  No such number in list
            RC = 10 -  Not online


GETSERVERSTATS

 Syntax:    GETSERVERSTATS STEM/A

 Function:  Retrieve server stats (number of users, etc.)

 Input:     STEM - The STEM to contain the results

 Result:    RC = 0  -  All OK
            RC = 5  -  Not connected and logged in

            <STEM>.USERS
            <STEM>.SONGS
            <STEM>.GIGABYTES
            <STEM>.SERVER
            <STEM>.PORT
            <STEM>.CONNECTTIME (in seconds since 1/1-1978)


ISONLINE

 Syntax:    ISONLINE

 Function:  Check if Amster is currently online.

 Result:    RC = 0  -  Offline
            RC = 1  -  Online.


SEARCH

 Syntax:    SEARCH TITLE/A,STEM/A,MAXRESULTS/K/N

 Function:  Searches for a song.

            Please note that this command doesn't work correctly when
            "Clear list before new searches" is disabled.

 Input:     TITLE     - Song title or artist
```

```
             STEM       - The STEM to contain the results
             MAXRESULTS - Overrides the configured setting

 Result:     RC = 0  -  All OK
             RC = 10 -  Failure
             RC = 15 -  Not connected and logged in

             <STEM>.COUNT           Number of search results
             <STEM>.<NUM>.TITLE     Song title
             <STEM>.<NUM>.USER      User name
             <STEM>.<NUM>.MD5       MD5 checksum
             <STEM>.<NUM>.SIZE      File size
             <STEM>.<NUM>.BITRATE   Bitrate
             <STEM>.<NUM>.FREQUENCY Frequency
             <STEM>.<NUM>.TIME      Time in seconds
             <STEM>.<NUM>.LINK      Link: 0 = Unknown
                                          1 = 14.400 Modem
                                          2 = 28.800 Modem
                                          3 = 33.600 Modem
                                          4 = 56K Modem
                                          5 = ISDN 64K
                                          6 = ISDN 128K
                                          7 = Cable
                                          8 = DSL
                                          9 = T1
                                         10 = T3+


 SEARCHSTATE

  Syntax:    SEARCHSTATE

  Function:  Check if Amster is currently searching.

  Result:    RC = 0  -  No search started
             RC = 1  -  Amster is currently searching
             RC = 2  -  Amster has the results


 WHOIS

  Syntax:    WHOIS USER/A,STEM/A

  Function:  Get information about another user.

  Input:     USER - User name
             STEM - The STEM to store the information in

  Result:    RC = 0  -  All OK: whois  - user is online
             RC = 1  -  All OK: whowas - user is offline
             RC = 10 -  Failure

             WhoIs:
             <STEM>.NICK
             <STEM>.LEVEL
             <STEM>.TIME       (in seconds)
             <STEM>.CHANNELS
```

```
                 <STEM>.STATUS
                 <STEM>.SHARES
                 <STEM>.DOWNLOADS
                 <STEM>.UPLOADS
                 <STEM>.LINK        (same scheme as in SEARCH command)
                 <STEM>.CLIENT

                 WhoWas:
                 <STEM>.NICK
                 <STEM>.LEVEL
                 <STEM>.LASTSEEN    (in seconds since 1/1-1978)


WINDOW

 Syntax:     WINDOWS NAME/A,OPEN/S,CLOSE/S

 Function:   Open or close one of the Amster windows.

 Input:      NAME  - Window name. Valid names are:
                       DOWNLOAD
                       UPLOAD
                       DEBUG
                       LIBRARY
                       HOTLIST
                       MESSAGE
             OPEN  - Open the window.
             CLOSE - Close the window.

 Result:     RC = 0  -  All OK
```

1.21 Past versions

```
History

0.8
---
* Startup time reduced significantly.
* Connect time is now shown in the main window title.
* Added a context menu for main listview (add/browse user) and
  removed User string gadget and Browse button.
* Menu option to merge libraries.
* Napigator support (server list fetching) - see www.napigator.com.

* Fixed login registration procedure to work with OpenNap too.
* Added "bypass registration" option for faster logins.
* Invalid password/username login error requesters.

* Improved CONNECT, SEARCH and WHOIS ARexx commands.
* New ARexx commands: GETSERVERSTATS and WINDOW.
* Separated server/port in GUI, ARexx commands and config.
* Divided transfer error event into download/upload error events.
* Added "start download/upload", "incoming message", "download/
  library doubleclick" and "download/upload aborted" events.
```

* Improved string gadgets (Textinput.mcc).
* Added cursor history to chat/messenger string gadgets.
* /MSG is now required in the messenger to be more consistent.

* Added more ARexx scripts and updated the player scripts.
* Added Bosnian and Polish translations.
* Install script updated – there's now three distribution archives,
  and needed MUI custom classes will be installed.
* Bugfixes and minor modifications (see CHANGES for details).

0.7a
----
* Improved ARexx SEARCH command
* A few bugfixes

0.7
----
* Channel list window
* Hotlist
* Improved messenger/chatter
* More flexible transfer manager
* Lots of bugfixes

0.6
----
* Upload (sharing)
* Built-in server navigator
* Automatic download retry when other client is busy
* Transfer queue settings
* Filename truncation with .mp3 suffix
* Improved error handling
* Lots of bugfixes and minor improvements

0.5a
-----
* List sorting in main- and share window
* Chat – EXPERIMENTAL
* Misc. small bugfixes and changes

0.5
----
* Resume support
* New network code
* Threaded downloads
* Improved GUI
* Player support
* /whois command (in messenger window)
* File share window (uploads not implemented yet)
* Now saves search options in config
* A few ARexx commands
* More languages

```
0.4
----
* Amster.guide
* Locale support
* Advanced search criterias
* Reconnect button
* Browse a specific user's files
* New configuration options
* New menus
* Shared file access


0.3
----
* Info/debug window
* Option to clear result list automatically
* Chat


0.2
----
* Version spoofing


0.1
----
* Initial public release
```

1.22   How to contact the authors

Contacting the authors

Coder

(Version 0.4-)

Jacob Laursen <laursen@myself.com>

http://home.worldonline.dk/~jlaur/amiga/

Original coder

(Version 0.1-0.5)

Gürer Özen <madcat@linuxfan.com>

Don't contact Gürer with bug reports and suggestions

Read this about reporting bugs.

Documentation

Jacob Laursen <laursen@myself.com>

ATO Translation Teams

Bosnian:

Alen Hadzihasanovic <hadaleppc@tiscalinet.it>

Catalan:

Llorenç Grau <llor69@olivet.com>

Czech:

Vit Sindlar <sindlarv@voskop.cz>

Danish:

Jacob Laursen <laursen@myself.com>

Dutch:

Frank Mosch <frank.mosch@pandora.be>

Guno Heitman <Guno@cable.A2000.nl>

Finnish:

Janne Karppanen <janne.karppanen@quicknet.inet.fi>

Samppa Rönkä <eksotic@dlc.fi>

French:

Jerome Chesnot <jchesnot@noname.fr> *

Hervé Dupont <herve.dupont@nordnet.fr>

German:

Sönke Tesch <soenke@kino-fahrplan.de>

Heiko Hayn <Smeagel@gmx.net>

Hungarian:

Péter Kovács <smit@matavnet.hu>

Álmos Rajnai <racs@fs2.bdtf.hu>

Italian:

Francesco Celli <mc3510@mclink.it>

Francesco Mancuso <mcfrank@mediatel.it>

Norwegian:

Øyvind Falch <oyvind.falch@triumph.no>

Polish:

Kamil Niescioruk <kniescio@biotop.umcs.lublin.pl>

Mariusz Danilewicz <mandi@interia.pl>

Portuguese:

Rúben Alvim <alvim_r@yahoo.com>

Joel Alvim <mindwalker@mail.telepac.pt>

Russian:

Oleg Sergeev <bigblack@mail.lanck.net>

Andrew Boyarintsev <ntrs@redline.ru>

Slovenian:

Uros Bogataj <urosb@technologist.com>

Damir Arh <damir.arh@telesat.si>

Spanish:

Javier de las Rivas <javierdlr@jazzfree.com>

Pablo Peskin <Pablo@peskin.com>

Swedish:

Fredrik Söderberg <mcdrill@hem.passagen.se>

Linus Andersson <linus_79@lover-boy.com>

Turkish:

Sinan Gürkan <sgurkan@superonline.com>

(Translator listed first, then proof-reader) If your team isn't listed here, and you want to do a translation, please contact Jacob.

* = Not an ATO translator

1.23 Reporting bugs

Reporting bugs

When submitting bug reports, please include as much information as possible. Don't just write "it doesn't work". As a minimum, gather the following information:

- Which version of Amster are you using? OS version? NList version?

Lamp version? MUI version?

- Do older versions (which) of Amster have the same problem (please

test)?

- How can the problem be reproduced? If it can't, under which

circumstances have you seen it occur?

- What happens exactly? Does the machine crash? Hang?

- If it's a problem with a specific file or user, please use /whois in

the Messenger window and write down which client he or she is using.

1.24 Known bugs

```
Bugs
```

```
Please go to http://www.amiga.dk/amster/bugs.html for an updated list of
known bugs.
```

1.25 Server navigator

Navigator

In this window you can manually add server entries and connect directly to any server. If you have Cache servers enabled, Amster will automatically remember all the servers you've been connected to. Also, when you were last connected will be remembered. This way you can always find the last server you were on by reverse sorting the Last online column (by clicking in the title).

The buttons

Connect - Connect to the selected server.

Remove - Remove selected server.

Add - Add a new server.

Update - Fetch current Napigator server list.

1.26 Connect to...

Connect to

Here you can connect directly to a specific server. Optionally you can register the account when logging in (default). If you disable this, the login time will be significantly reduced.

You also have the opportunity to type in a username and password to login with. This will not be saved, so if you register an account this way, don't forget the login information afterwards.

1.27 Magic User Interface

```
This application uses


                    MUI - MagicUserInterface

            (c) Copyright 1992-97 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.
```

1.28 Lamp.mcc

```
Lamp.mcc/Lamp.mcp and all according files are Copyright © 1997 by Maik
Schreiber/IQ Computing.
Updates are always available at http://home.pages.de/~bZ/projekte/mcc_lamp/
```