am

COLLABORATORS			

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Contents

Chapter 1

am

1.1 am.guide

                              AM – Account Manager for muFS

                        Version 1.0

                      © 1994 by Ingolf Koch

   $VER: am.guide 1.0 (7.6.94)

   This file documents version 1.0 of AM, an Account Manager
for the Multi User File System (
                muFS
).

                Overview
                        Preliminary information.

                Legal Stuff
                        Responsibility, ...

                Requirements
                        What you *do* need.

                Getting Started

                Main Window

                Author
                        The author of AM

                Crew
                        The testers and translators

                Credits
                        People who helped me create 'AM'

1.2 am.guide/Overview

Overview
****

   This chapter gives you a quick overview over the following topics:

1.3 am.guide/About AM

AM's features
=============

   Are you running
              muFS
              , the Multi User File System for the Commodore
Amiga? Then you surely have thought of a program providing an easy way
to maintain the users and groups in your system.

   Of course such a program should have a graphical user interface
which allows doing all necessary operations by a few mouse klicks or
key strokes. Additionally, it should be localized i.e. speaking to you
in your preferred language.

   Then 'AM' is the program you want. It was written to support the
system operator's work by supplying an easy-to-use user interface based

on
                    MUI
                      (Magic User Interface) by Stefan Stuntz.

    The following gives you a quick overview on 'AM''s facilities:

    * localized (see
                    Localization
)

    * needs and makes extensive use of MUI 2.0 ('muimaster.library'
      version 7+)

    * supports the following operations on the
                    muFS
                      system files

        – create new users/groups

        – edit any characteristics of an existing user/group

        – delete users/groups

        – temporarily ban a user from the system

    * automatically creates new $HOME directories and installs default
      files there by executing a user supplied script

    * checks $HOME directories (not functional yet)

    * searches
                    muFS
                      partitions for files with bad owner information and
      changes them

1.4 am.guide/Distribution

                    The files in the archive
========================

    The following list shows the contents of the 'AM 1.0' distribution.
Please report differences to the
                    Author
                    . If you copy the archive or
make it accessible by others, it must contain *exactly* these files and
must not be modified in any way.

        628 29-May-94 23:41:04 am1_0.info
      56724 29-May-94 19:47:34 am1_0/am
        468 29-May-94 23:41:04 am1_0/am.info
       1462 29-May-94 23:49:42 am1_0/am.readme
        543 05-Jun-94 23:46:06 am1_0/am.readme.info
        628 05-Jun-94 23:47:06 am1_0/Catalogs.info

```
    10848 25-Apr-94 23:54:14   am1_0/Catalogs/am1_0.cd
     6795 26-Apr-94 00:59:00   am1_0/Catalogs/am1_0.ct
     5360 29-May-94 20:01:28   am1_0/Catalogs/deutsch/am.catalog
     5056 29-May-94 20:01:44   am1_0/Catalogs/nederlands/am.catalog
     4868 09-Jun-94 19:07:26   am1_0/Catalogs/norsk/am.catalog
     5408 09-Jun-94 22:49:09   am1_0/Catalogs/português/am.catalog
     4668 29-May-94 20:01:52   am1_0/Catalogs/svenska/am.catalog
      628 05-Jun-94 23:44:48   am1_0/docs.info
      628 05-Jun-94 23:45:32   am1_0/docs/english.info
   100680 09-Jun-94 23:00:00   am1_0/docs/english/am.dvi
      523 05-Jun-94 23:45:32   am1_0/docs/english/am.dvi.info
    59592 09-Jun-94 23:08:51   am1_0/docs/english/am.guide
      504 05-Jun-94 23:45:32   am1_0/docs/english/am.guide.info
     1349 19-Nov-93 17:38:02   am1_0/ReadMe.mui
      543 05-Jun-94 23:46:12   am1_0/ReadMe.mui.info
```

1.5 am.guide/Legal Stuff

```
Legal Stuff
***********
```

   There's not very much to say about this topic:

   This program may be freely distributed i.e. without any charge
except for a copying fee of maximum USD 5. It may not be included in
commercial programs without prior written consent by the author.

   This program may be included in shareware or public domain libraries
as long as the price per disk does not exeed USD 5.

   'AM 1.0' may be stored and made accessible in electronic
networks such as the Internet, on anonymous ftp servers and in bulletin
board systems.

   'AM 1.0' may be stored on CD-ROMs (especially on "Fresh Fish"
CD-ROMs and on Walnut Creek's "Aminet" CD-ROM).

   Storage and use of this program is only permitted for non military
purposes, i.e. this program may not be used by military institutions or
by non-military institutions co-operating with military institutions.

   Although AM 1.0 has been thoroughly tested on various
platforms there might still be some bugs in it. So use this program at
your own risk. The author of AM 1.0 may not be made responsible
for any damage caused directly or indirectly by AM 1.0.

1.6 am.guide/Requirements

```
              Requirements
************
```

There are a few things you should have installed when you want to
start 'AM':
  * Of course, you need
                muFS
                 (Multi User File System by Geert
    Uytterhoeven) :-)

  * As a result, another requirement (AmigaOS 2.0+) is automatically
    satisfied.

  * 'AM' makes extensive use of the new features of
                MUI
                 2.0. So make
    sure you have at least version 7 of 'muimaster.library'.
                MUI
                   (Magic User Interface) is © by Stefan Stuntz (see the file
    'ReadMe.mui' for more info).

  * If you want to use the locale facilities, you need at least
    AmigaOS 2.1.

  * The partition scan function could use a lot of stack if you have a
    very deep directory tree. The minimal stack for 'AM' can be
    roughly calculated by the formula (only valid for
    AmigaOS 3.0--might be less for 2.0 and 2.1):
        min_stack = maximum_of 5000 and (900 + 500*max_depth).

  * To open the Set Actions... window, you need quite a large screen.
    If you use the 'topaz/8' font, the screen should be of size
    640x360. Due to a bug in 'muimaster.library' version 7, 'AM' will
    hang if a window cannot be opened.

  * Although not required, it is recommended that you have at least a
    68020 processor. The GUI would be very slow otherwise ;-)

  * 'AM' should be owned by root and can be made readable and
    executable for everyone. But *never* set the u flag!!!

1.7 am.guide/Getting Started

```
              Getting Started
***************
```

To run 'AM' double click its icon or (from shell) type 'AM'
optionally followed by the name of the language you want to use. Make
sure you have enough stack before running 'AM'. In this version, 'AM'
will not check and automatically increase stack size.

If 'locale.library' is present in your system, 'AM' will try to open

the specified catalog (if you start from shell and supply a language
name) or the default language (set by Workbench's 'Prefs/Locale').

   If there's no 'locale.library' or the desired catalog could not be
opened, 'AM' will talk to you in English (the builtin language).

   Please refer to the chapter on
                Localization
                 for information on which
languages are supported or on what to do if you want to translate 'AM'.

   After opening 'locale.library', 'AM' checks if you are root. If not,
you are prompted to enter root's password. Note that 'AM' refuses to
work if you supply a wrong password :-)

   If you are running 'AM' for the first time (i.e. there's no
'ENV:mui/MUFS_AM.cfg' file) the GUI will open with the default layout.
You may want to change the layout and save it permanently (see
                Edit-Save
                 and your 'Prefs/MUI' doc).

   'AM' automatically finds your
                passwd
                 and
                MultiUser.group
                 files and
loads them into its memory.

   All error messages are localized, so if there's an error during
startup, you'll see the reason in your preferred language (if there's a
suitable catalog).

   Have a look at the
                Requirements
                 chapter for more information on what
is needed to run 'AM'.

1.8 am.guide/Main Window

                The main window
****

   If the system libraries are opened successfully 'AM' opens its main
window. This window consists of various areas:

                Listviews
                     Two listviews for users and groups in the system

                Info display
                     A text object displaying error messages and other info

       Files

           The
passwd
,
MultiUser.group
, and
am.log
 files

       Buttons

          Action buttons

       Quit

           Leave the program

       Main Menu

          Yes, 'AM' even has a menu bar :-)

1.9 am.guide/Listviews

           The Users and Groups listviews and buttons
==

   After loading the
          passwd
     and
         MultiUser.group
     files, the users and
groups known to the system are displayed in two listviews. The left
listview contains the users whereas you find the groups in the right
listview.

   For both users and groups, each entry in the according listview
shows the UserID and GroupID as well as the UID and GID, respectively.
The UID/GID will only be displayed, if there's enough space in the
listview.

   You may scroll the listviews via the propgadget or the keyboard. In
the latter case, use the TAB key to step through the main window's
'CycleChain' until the appropriate listview is the active one. To
scroll up and down, hit the corresponding cursor key.

   Below each of the listviews there are a few buttons which allow
modification of the users/groups list. In most cases they operate on
the currently activated user/group, so make sure you have an active
entry in the corresponding listview.

   To activate an entry, click once on the entry in the listview or use
the cursor keys.

The following buttons appear below the 'User' listview:

            New (User)
                Create a new user (no activated entry necessary)

            Edit (User)
                Modify an existing user

            Delete (User)
              Delete a user

            Ban
                        Temporarily disable a user

            Admit
                        Re-enable the user

   There are similar buttons at the bottom of the 'Groups' listview:

            New (Group)
                Create a new group (no activated entry necessary)

            Edit (Group)
                Modify an existing group

            Delete (Group)
             Delete a group

   The New and Edit buttons will open a window:

            Users Window
                 or

            Groups Window

1.10   am.guide/New (User)

                Creating a new user

   Select the New button to create a new user. The
                Users Window
                will
open with most of the entries cleared.

   Only the UID entry contains a valid number, namely the lowest
available UID in the system (not currently occupied by another user).
In future versions of 'AM' this will probably change to make creating

new users a bit more comfortable.

   You have to supply at least a valid
                  UserID
                  , a valid
                  UID (User)
                   and a
valid
                  Primary GroupID
                   to successfully add the new user to the system.

   See
                  Edit (User)
                  .

1.11   am.guide/Edit (User)

                  Editing a user's characteristics

   If you press the Edit button at the bottom of the 'Users' listview
in the
                  Main Window
                   the
                  Users Window
                   opens displaying the present
characteristics of the selected user.

   You may modify each of them but keep in mind that changing the
                  UserID
                  automatically clears the user's
                  Password
                   and that changing the user's

                  UID (User)
                   makes a
                  Scan
                   of the whole file system necessary to update.

   (You may want to
                  Scan
                   after changing the
                  Primary GroupID
                  , too.)

1.12   am.guide/Delete (User)

```
                    Deleting a user
---------------
```

   Pressing the Delete button will automatically remove the selected
user from the 'Users' listview.

   Caution: You are not asked to confirm this action!

   If you find it necessary to open a confirmation requester before
actually deleting the user, please inform me about that (see
                    Author
).

   Strictly speaking, the user is not totally removed from the system
at all. He remains in the
                    passwd
                     file until you
                    Save
                     your configuration.
Additionally, the deleted user is kept in 'AM''s internal memory because
this information is needed when you
                    Scan
                     the file system.

1.13 am.guide/Ban

```
                    Temporarily disabling a user
----------------------------
```

   Sometimes you might find it necessary to forbid a user's access to
the system without deleting information on this user. Usually, this is
done by changing this user's password.

   'AM' changes the encrypted password string of the selected user to
'User_banned'. As it is (nearly) impossible to find a password which
will match this magic string after encryption, this is quite a safe way
of banning.

   If 'AM' detects a user whose encrypted password matches 'User_banned'
during
                    Open
                     this user will automatically be marked as banned.

   Banned users are surrounded by asterisks * in the Users listview.

   Note: If you
                    Clear Password
                     a banned user's password the ban will
be released.

   Note: 'AM' only remembers the original password until you leave the
program or

                        Open
                         the files. So if you
                        Admit
                         the user again, the original
password can only be restored if you did not leave 'AM' or
                        Open
                         the
files before.

1.14 am.guide/Admit

                        Releasing a ban

   To permit a banned user to access the system again, click on the
Admit button. In most cases the selected user's password will be
cleared, so access is made possible after the next
                        Save
                         operation.

   The only exception of this rule is made if you did not
                        Open
                         or
                        Quit
                        between the
                        Ban
                         and the 'Admit' operations. If you by mistake
                        Ban
                         a
user you may safely click on Admit without destroying the user's
password.

   Note: Remember that the user should set his password immediately
after
                        Save
                        . You must reload the files to let 'AM' know the new password.

1.15 am.guide/Users Window

                        The 'Users' Window

   The 'Users' window is divided into two parts: On the lefthand side
there are the user's main characteristics, on the righthand side you
find the list of the user's secondary groups.

   Let's turn to the 'Characteristics' part of this window. You may
modify each of the entries as you like. Well, to be honest... nearly as

you like (see

UserID
,
UID (User)
,
Clear Password
).

UserID

Password

UID (User)

Primary GroupID

Name (User)

Home

Shell

Clear Password

Add Secondary Group

Delete Secondary Group

Ok (User)

Cancel (User)

1.16 am.guide/UserID

The 'UserID' entry
....

Every user *must* have a valid 'UserID'. That's the name you use to login. Of course, the 'UserID' must be unique. So 'AM' does not allow you to specify a 'UserID' which already exists.

Note: If the user has a
Password
set and you modify his 'UserID'
the 'password' will be cleared, as it is dependant on the 'UserID'.

Some characters, for example |, are not allowed for a 'UserID'.
These will be rejected automatically by
MUI
.

1.17 am.guide/Password

                    The user's password
....

   If the user has a password set it will be displayed in the 'password
text object'. This is *not* the real password but the encrypted 11
character string (as it is not possible to decrypt it -- better say:
it's very difficult to decrypt it :-).

   There are three ways for you to manipulate the password string:

   * Clicking on the
                Clear Password
                 button will remove the password.
     Now everyone can login as this user!

   * Modifying the
                UserID
                 clears the password, too. *Again, everyone
     can login as this user!*

   * If you
                Ban
                 a user from the system the password will be set to the
     magic string 'User_banned'. Remember that after clicking on
                Admit
                    the password will be cleared!

   If there is a user with no password supplied you'll be informed
about that in the
                am.log
                 when you
                Save
                .

1.18 am.guide/UID (User)

                    The user's UID
....

   The UID is a number in the range [1..65535]. You *must* supply a
valid (i.e. in the correct range and unique) UID for every user in the
system.

   If you try to set a wrong UID you'll be informed about that.
Currently, the only way to see which UIDs are available is to look at
the 'Users' listview (see

```
             Listviews
             ).
```

   If you change the UID of a user who is already known to the system
(i.e. there's an entry for that user in the
```
             passwd
              file) you should
             Scan
             the
             muFS
              formatted partitions on your hard drive, since the information
```
on the files' owners must be updated.

   Modifying a user's UID makes sense if you want to change the users
hierarchy in your system imposed by the UIDs.

   Unlike
```
             UserID
             , modifying the UID does not clear the
             Password
             .
```

1.19 am.guide/Primary GroupID

The user's primary group
....

   Every user belongs to at least one group in the system. The main
group is also called 'primary group'. You *must* supply a valid GroupID
for the user's primary group.

   To make this easier the GroupID may be entered by a 'popup object'.
Just click on the popup button to make a listview of currently
available GroupIDs appear. You can then select the GroupID you wish by
double clicking on the according entry in the listview.

   Of course, you can enter the GroupID "by hand" in the string gadget.
If you mistype the GroupID 'AM' will refuse this string and open the
listview automatically.

   If the new primary group is already in the list of secondary groups
it will be automatically removed from that list.

1.20 am.guide/Name (User)

             The user's real name
....

   In this string gadget, you should supply the user's real name. You

may use (nearly) any characters except | as this is the separator in the

                  passwd
                   file.

    Note for AmiTCP users: Normally, the 'Name' also includes
information on the user's office and phone numbers. The current version
of 'AM' does not support this in that it does not supply separate string
gadgets for these parameters. Please give all information in the 'Name'
string gadget separated by commas (,):

      Markus Peuhkuri,G218,4512462,4521992

1.21 am.guide/Home

                  The user's $HOME directory
....

    The user's home directory ($HOME) is specified here. You may enter
any syntactically correct path here--in other words: the path needn't
exist. If you set the
                  Options-Set up new $HOMEs
                   menu item non existing
$HOMEs will be created and the necessary files will be installed there.

    If you use the ASL file requester to select the $HOME directory a
slash / will be appended automatically to that string. You needn't
worry about that as 'AM' removes trailing slashes automatically.

    Currently the
                  Options-Check $HOMEs
                   menu item is disabled. In future
versions you'll be informed about $HOMEs which are not located on
                  muFS
                  partitions.

1.22 am.guide/Shell

The user's default shell
....

    You may enter the user's default shell here. Future versions of 'AM'
will supply a popup object for this.

1.23 am.guide/Clear Password

```
              Clear the user's password
........................
```

   Clicking on this button clears the password string. Since a user
without a password is in a dangerous state you'll be warned about
missing passwords in the
```
              am.log
                .
```

1.24 am.guide/Add Secondary Group

```
Add a new secondary group
........................
```

   There are two ways of adding a new secondary group to the list:
   * Type the group's name in the string gadget and hit return

   * Click on the popup button and select the new group by double
     clicking on the entry in the popup. (This is the more comfortable
     way.)

   If the secondary group is already in the list or if it is the
primary group nothing will happen.

   If you supply an invalid GroupID a requester pops up and nothing
will be added.

1.25 am.guide/Delete Secondary Group

```
              Delete a secondary group
........................
```

   Click on this button to remove the currently active secondary group
from the listview. 'Active' means: the selected entry in the listview.

   Note: There's no Undo button. If you delete a secondary group by
mistake, either reenter this GroupID or choose
```
              Cancel (User)
               and start
```
editing again.

1.26 am.guide/Ok (User)

                     Leaving the Users window by clicking on Ok
....

    The Ok button is one way to leave the Users Window. If all important
settings are valid (i.e.
                    UserID
                    ,
                    UID (User)

                    Primary GroupID
) the new
values are stored in 'AM''s memory.

    If 'AM' finds an invalid value it will complain and refuse to close
the window.

1.27   am.guide/Cancel (User)

Leaving the Users window by clicking on Cancel
....

    If you click on Cancel all changes will be ignored, and the Users
window is closed.

1.28   am.guide/New (Group)

                     Creating a new group

    Select the New button to create a new group. The
                    Groups Window
                     will
open with most of the entries cleared.

    Only the GID entry contains a valid number, namely the lowest
available GID in the system (not currently occupied by another group).
In future versions of 'AM' this will probably change to make creating
new groups a bit more comfortable.

    You have to supply at least a valid
                    GroupID
                    , a valid
                    GID (Group)
                     and
a valid
                    Manager UserID
                     to successfully add the new group to the system.

See
                           Edit (Group)
                           .

1.29 am.guide/Edit (Group)

                           Editing a group's characteristics

   If you press the Edit button at the bottom of the 'Groups' listview
in the
                           Main Window
                            the
                           Groups Window
                            opens displaying the present
characteristics of the selected group.

1.30 am.guide/Delete (Group)

                           Deleting a group

   Pressing the Delete button will automatically remove the selected
group from the 'Groups' listview.

   Caution: You are not asked to confirm this action!

   If you find it necessary to open a confirmation requester before
actually deleting the group, please inform me about that (see
                           Author
).

   Strictly speaking, the group is not totally removed from the system
at all. It remains in the
                           MultiUser.group
                            file until you
                           Save
                            your
configuration. Additionally, the deleted group is kept in 'AM''s
internal memory because this information is needed when you
                           Scan
                            the
file system.

1.31   am.guide/Groups Window

```
              The 'Groups' Window
------------------
```

   This window displays the group's 'Characteristics'. You may modify
each of the entries as you like. Well, to be honest... nearly as you
like (see

```
              GroupID
              ,
              GID (Group)
              ).
```

```
               GroupID

               GID (Group)

               Manager UserID

               Name (Group)

               Ok (Group)

               Cancel (Group)
```

1.32   am.guide/GroupID

```
              The 'GroupID' entry
...................
```

   Every group *must* have a valid 'GroupID'. That's the group's
symbolic name. Of course, the 'GroupID' must be unique. So 'AM' doesn't
allow you to specify a 'GroupID' which already exists.

   Some characters, such as |, are not allowed for a 'GroupID'. These
will be rejected automatically by

```
              MUI
               .
```

1.33   am.guide/GID (Group)

```
              The group's GID
..............
```

   The GID is a number in the range [0..65535]. You *must* supply a
valid (i.e. in the correct range and unique) GID for every group in the
system.

If you try to set a wrong GID you'll be informed about that.
Currently, the only way to see which GIDs are available is to look at
the 'Groups' listview (see
                Listviews
).

    If you change the GID of a group which is already known to the
system (i.e. there's an entry for that group in the
                MultiUser.group
                file) you should
                Scan
                 the
                muFS
                 formatted partitions on your hard drive,
since the information on the files' owners must be updated.

    Modifying a group's GID makes sense if you want to change the groups
hierarchy in your system imposed by the GIDs.

1.34 am.guide/Manager UserID

The UserID of the group's manager
....

    Every group needs to have a manager responsible for this group. So
you *must* supply a valid UserID for the group's manager.

    To make this easier the UserID may be entered by a 'popup object'.
Just click on the popup button to make a listview of currently
available UserIDs appear. You can then select the UserID you wish by
double clicking on the according entry in the listview.

    Of course, you can enter the UserID "by hand" in the string gadget.
If you mistype the UserID 'AM' will refuse this string and open the
listview automatically.

1.35 am.guide/Name (Group)

                The group's real name
....

    In this string gadget, you should supply the group's real name. You
may use (nearly) any characters except | as this is the separator in the

                MultiUser.group
                 file.

1.36 am.guide/Ok (Group)

                  Leaving the Groups window by clicking on Ok
....

    The Ok button is one way to leave the Groups Window. If all important
settings are valid (i.e.
                  GroupID
                  ,
                  GID (Group)
                  ,
                  Manager UserID
) the new
values are stored in 'AM''s memory.

    If 'AM' finds an invalid value it will complain and refuse to close
the window.

1.37 am.guide/Cancel (Group)

Leaving the Groups window by clicking on Cancel
....

    If you click on Cancel all changes will be ignored, and the Groups
window is closed.

1.38 am.guide/Info display

The Info display
================

    This frame displays information on what 'AM' is doing.

    If something has gone wrong you'll be informed about that here.
Usually a requester will pop up first in this case, but you are
reminded of the error by the error message displayed in the Info
display.

1.39 am.guide/Files

                  The Files frame
===============

    The Files frame consists of three popup objects to select the file
names for the

```
                passwd
                ,
                MultiUser.group
                , and
                am.log
                 file respectively.
After startup they contain the default names for each of the files.

    You may alter these files as you want either by entering the name in
the string gadget or by popping up the asl requester. *But be careful:*
using different names for the
                passwd
                 or
                MultiUser.group
                 file may cause
inconsistencies to your system.
```

1.40   am.guide/passwd

```
                The passwd file
---------------

    This is the file where nearly all information on the users is stored
(all but the secondary group information). See the
                muFS
                 doc for more
info.
```

1.41   am.guide/MultiUser.group

```
                The group file
--------------

    This is the file where all information on the groups is stored. See
the
                muFS
                 doc for more info.
```

1.42   am.guide/am.log

```
                The log file
------------

    The log file informs you about some important things. The following
```

information appears in the log file:
   * The file names when you
                   Save
                      * Users who don't have a password set when you
                   Save
                      * Files modified by
                   Scan
                      * Errors encountered during
                   Save
                    or
                   Scan
                      The default place for the log file is in the same directory as ←
                         the
passwd file (determined by a `muGetPasswdDirLock()' call).

1.43   am.guide/Buttons

                   Below the file names, there are three buttons which start some ←
                      of
`AM''s operations:

                    Open
                       Reread the
                   passwd
                    and
                   MultiUser.group
                    files

                    Save
                       Save both the
                   passwd
                    and
                   MultiUser.group
                    files

                    Scan
                       Scan the
                   muFS
                    partitions for invalid files

1.44   am.guide/Open

Load the passwd and group file

   If you select the 'Open' operation 'AM' will check first whether the
configuration is modified and should be saved first. If so a requester
pops up and you may answer that you really want to load or that you've
decided to abort.

   All information on users and groups (deleted ones, too) is discarded
from the memory.

1.45 am.guide/Save

                     Save the passwd and group file

   'AM' does not just save the files. It checks first if the
configuration contains serious errors. 'AM' does not save if there was
a load error before or if there's no user with UID 65535 (no root!).

   In some situations 'AM' will warn you (and you are asked if you want
to proceed):
   * If the user having the root UID has been changed

   * If root's primary group's GID is not equal to 65535

   * If you have modified one of the file names

   In some cases it may be necessary to
                   Scan
                    after saving--if UIDs or
GIDs have been changed. In those cases 'AM' informs you about that.

1.46 am.guide/Scan

                     Scan muFS partitions

   This is probably the most complex operation provided by 'AM'. It is
used to update the file system if you change certain settings, for
example the UID. In such cases there might exist files on your
                   muFS
                   formatted partitions which don't have a valid OwnerUID or OwnerGID ←
                       .

   Therefore 'AM' opens a new window (the 'Scan' window) and scans the
whole directory tree (or better say 'trees' if you have more than one

                   muFS
                    partition). All files which need to be updated are collected and
displayed in the

                        Scan Listview
                        . You can then select the files you want
to modify and tell 'AM' what to do with them.

    While scanning, 'AM' disables some buttons. Don't worry: They'll be
enabled again when the scan is finished. The current directory is
displayed in the text object surrounded by the "Scanning" frame. So you
have an idea of where 'AM' currently is and how long it will take to
scan the rest. See
                        Requirements
                        .

    If you don't want to wait till 'AM' has finished the scan you may
click on the Abort button. The scan process is aborted but you can
modify the files already found.

    If you click on the Back button instead, the scan will be aborted as
with Abort but additionally the 'Scan' window will be closed.

    Each file displayed falls into exactly one of five categories which
is shown in the
                        Scan Listview
                        , too:

                    Nobody
                        owned by Nobody (OwnerUID = 0)

                    Deleted
                        owned by a user whom you deleted before

                    Orphan
                        the file's OwnerUID is not known to the system

                    UID
                            the UID of the file's owner was changed

                    GID
                            the file's OwnerGID is different from the owner's primary ←
                                GID
    With the five buttons you can select/deselect the corresponding
files in the
                        Scan Listview
                         all at once. To explicitly select/deselect a
single file click on the entry in the
                        Scan Listview
                        .

    Before you Start modifying the selected files you should click on the

                        Set Actions...
                         button to tell 'AM' what to do with the selected files.

    If everything is to your satisfaction use the Start button to modify
the selected files. Correctly processed files are removed from the

                    Scan Listview
                    .

    When the conversion is finished 'AM' does not return to the

                    Main Window
                     but lets you select other files, modify the actions by

                    Set Actions...
                    , and process the newly selected files in a different way.

    At any time you may return to the
                    Main Window
                     by clicking on the
Back button.

1.47 am.guide/Scan Listview

                    The listview in the Scan window
....

    All files to be modified found during a scan of the
                    muFS
                     partitions
are displayed in the Scan listview. This listview consists of three
columns namely the file name, the file's type, and the directory where
the file is located.

    The file's type is either
                    Nobody
                    ,
                    Deleted
                    ,
                    Orphan
                    ,
                    UID
                    , or
                    GID
                     and
tells you about the reason why the file appears in the listview.

    This listview is multiselectable, i.e. you may select as many
entries at the same time as you like. You may select entries either by
using the 'File Selection' buttons or by mouse clicking on the
corresponding entry. You need not use the multi select qualifier (such
as the SHIFT key) for this multi selection.

1.48 am.guide/Nobody

               The Nobody type
....

   Files of type 'Nobody' are those with an OwnerUID of zero. Usually
all files will be owned by Nobody if you've just installed
                muFS
                  in your
system. So be prepared to have lots of entries if you run 'AM' for the
first time :-)

   There may appear new 'Nobody' files later if someone creates a new
file without logging in before.

1.49 am.guide/Deleted

               The Deleted type
....

   If you delete a user 'AM' does not remove this entry from its
internal memory. So 'AM' is able to detect files which were owned by
this deleted user and therefore don't have a valid owner now.

   Note: Of course you must not leave 'AM' between deleting the user
and scanning. Otherwise 'AM' would not be able to remember the deleted
user's UID and the deleted user's files would be of type
                Orphan
                   .

1.50 am.guide/Orphan

The Orphan type
....

   Orphan files are those files having an OwnerUID not equal to zero
but without a user known to the system with this UID.

   In most cases these files will appear if you delete a user from the
system without scanning directly after that. After leaving 'AM' no
information about the deleted user can be recovered so files owned by
that user are marked as orphan.

1.51 am.guide/UID

The UID type
....

   'AM' allows you to change a user's UID. After doing so, all files
owned by that user will no longer have a valid OwnerUID as this must be
adjusted to the new value, too.

   Note: Although you can give another user the UID 65535 (the root
UID), under no circumstances files owned by root will change their
OwnerUID as they should be owned by the new root user (i.e. keep the
OwnerUID of 65535).

1.52   am.guide/GID

                 The GID type
....

   Usually a file's OwnerGID should match its owner's primary GID.
Files having a different OwnerGID will be added to the
                 Scan Listview
                 ,
as you might have changed the owner's primary group and want to adjust
the OwnerGID.

   But there might be situations in which the different OwnerGID is
intended to make the file accessible to members of a group different
from the owner's primary group. Then you should keep such files
deselected.

1.53   am.guide/Set Actions...

                 The Actions window
....

   After pressing the Set Actions... button a large window will open
displaying lots of buttons. They are arranged in three columns entitled

                 Nobody
                 ,
                 Deleted
                 , and
                 Orphan
                 , respectively. See
                 Requirements
                 .

   For each of these three types you can tell 'AM' what to do with files
which fall into this category.

Two types of Actions are supported:
* Change means that the file's owner is changed to the owner given in
  the string gadget below, and the file's protection bits are
  modified as stated in the 'Protection' part of this column.

* Delete means that the file will be deleted. The owner string gadget
  and the 'Protection' area are disabled in this case.

If you choose Change you must supply the new owner's UserID in the
string gadget. The most comfortable way is to use the popup. *'AM' will
not close this window if there is an illegal UserID.*

In the 'Protection' area you state how each of the file's protection
flags should be modified. All
                muFS
                 supported flags are listed here.
- u: Only clearing and keeping is allowed here. *Keeping this flag
  unmodified is very very dangerous!!!* Default is 'Clear'.

- spa: These flags may either be set, cleared or kept unmodified.
  Default is 'Keep'.

- rwed for owner: These flags may either be set, cleared or kept
  unmodified. Default is 'Keep'.

- rwed for group members or others: You have the choice between
  'Set', 'Clear', 'Keep' and 'Owner'. If you select 'Owner' the
  corresponding flag of the owner's rwed part is copied. This is
  done *after* altering the owner rwed flags.

Use the Ok button to close this window. Please note again that the
string gadgets must contain valid UserIDs if they are not disabled.

All settings in this window are saved automatically to ENV: when you

                Quit
                 'AM'. if you want to store them permanently (of course you want ←
                    to
do so :-) use the
                Edit-Save
                 menu item.

1.54 am.guide/Main Menu

                The main menu
=============

If you are in the
                Main Window
                 you can start some of 'AM''s
operations by selecting the appropriate menu item. But there's even
more in the main menu:

```
                         Project
                           The 'usual' project menu


                         Options
                           Turn some features on/off


                         Edit
                             Load and save the configuration file
```

1.55 am.guide/Project

```
                     The Project menu
----------------

   From this menu you can select the
                     Open
                     ,
                     Save
                     , and
                     Scan
                      operations
(the same as clicking on the corresponding button in the
                     Main Window
                     ),
as well as get information about the
                     Author
                      and the translator
(About... item) and
                     Quit
                      the program.
```

1.56 am.guide/Options

```
                     The Options menu
----------------

   The following items may be selected (default) or deselected:


                     Options-Set up new $HOMEs

                     Options-Check $HOMEs
```

```
                    Currently not supported :-(

               Options-$HOME icons

               Options-File icons

               Options-Display
```

1.57 am.guide/Options-Set up new $HOMEs

```
               Set up new $HOMEs
.................
```

   If a $HOME directory does not exist when you
               Save
                it will be
created, and the default files will be installed there correctly.

1.58 am.guide/Options-Check $HOMEs

```
               Check $HOME directories
......................
```

   In future releases 'AM' will check if the user's $HOME directories
are located on
               muFS
                partitions, if their size does not exeed a certain
maximum, ...

1.59 am.guide/Options-$HOME icons

```
Create $HOME icons
.................
```

   If set, 'AM' puts an icon for newly created $HOME directories. Its
image will be the default drawer icon. Its owner is the corresponding
user, so he can adjust the dimensions of the drawer's window.

1.60 am.guide/Options-File icons

                    Create icons for the system files
....

   If set, 'AM' creates icons for the
                    passwd
                    ,
                    MultiUser.group
                    , and

                    am.log
                     files which are owned and only accessible by root. Their image is
taken from 'AM''s image, but they are 'Project' icons with a default
tool of 'AM'.

1.61 am.guide/Options-Display

                    Freeze display when doing lots of list operations
....

   This item is intended mostly for those of you who must work with
slow machines. To make life a bit easier you can turn off this item.
When you
                    Scan
                     the
                    muFS
                     partitions the listview is not updated every
time a new entry is added to that list.

   Of course this will only save reasonable time if there are many
files to be added.

   Maybe this feature will be improved in future releases.

1.62 am.guide/Edit

                    The Edit menu

   This menu is very much like the standard 'Prefs' menu of the same
name. 'AM' automatically stores some of your settings in a private
configuration file in ENV: when you
                    Quit
                     the program. This file is
loaded automatically during startup or explicitly (see below).

   You'll find the following items in the Edit menu:

```
                   Edit-Last Saved
                     Load from ENVARC:


                   Edit-Restore
                        Load from ENV:


                   Edit-Save
                           Save to ENVARC:
```

1.63 am.guide/Edit-Last Saved

Load configuration from ENVARC:
....

    Selecting this item causes 'AM' to read the configuration from
'ENVARC:mui/MUFS_AM.cfg' which usually is somewhere on your hard disk.

1.64 am.guide/Edit-Restore

                   Load configuration from ENV:
....

    Selecting this item causes 'AM' to reread the configuration from
'ENV:mui/MUFS_AM.cfg' which usually is somewhere on a RAM disk.

    This file is automatically loaded at startup and saved on
                   Quit
                       .

1.65 am.guide/Edit-Save

                   Save configuration To ENVARC:
....

    Selecting this item makes 'AM' permanently save the configuration to
'ENVARC:mui/MUFS_AM.cfg' which usually is somewhere on your hard disk.

    There's no need for a menu item which saves to ENV: as this is
automatically node on
                   Quit
                       .

1.66 am.guide/Quit

```
              Quit the program
================
```

   Pressing the Quit button or selecting the Quit item from the
              Project
              menu terminates 'AM'. Before really exiting 'AM' checks if the ←
                files
need to be saved and informs you about that by popping up a requester.

   You can still continue to work with all information in 'AM''s memory
at this point. If you decide to terminate 'AM' all information on
deleted users is discarded. See
              Deleted
               .

1.67 am.guide/Author

```
Short information on the author
===============================
```

'AM' was written by:

      Ingolf Koch
      Wellenkampstraße 38
      D-32791 Lage
      Germany
      Phone: 05232/2700

If you call from other countries replace the leading 0 by the
appropriate prefix for Germany.
My email address is ingolf@mathematik.uni-bielefeld.de
Additionally, I can often be found on IRC. My nick name is Balin.

1.68 am.guide/Crew

```
              The development crew
====================
```

   There are quite a few people who had great influence on 'AM' being
what it is now. On the one hand, there are the translators:

   * Paul Dolk (Netherlands catalog)

   * Håkon Enger (Norwegian catalog)

   * Christofer Kull (Swedish catalog)

```
    * Goncalo Valverde (Portuguese catalog)

   They also did a lot of testing (and bug reporting :-). Thank you!
(The German 'translation' was done by the
                Author
                 himself.)

   On the other hand, there are additional testers who helped me very
much with their bug reports, criticism, and suggestions (and the list
of suggestions is growing and growing...):

    * Walter Francis

    * Michael Hohmann

    * Krunoslav Njers

    * Bernhard Seefeld

    * Horst Weber

   Thanks again for your work, guys.
```

1.69 am.guide/Credits

```
                Lots of thanks
==============

   Besides the 'AM' development
                Crew
                 I'd like to thank the following
people

    * Geert Uytterhoeven for
                muFS
                    * Stefan Stuntz for creating
                MUI
                , answering lots of questions and
    bearing my constant (positive and negative) criticism

    * Matt Dillon for DICE

    * Markus Illenseer (ill) and other people on IRC (#AmigaGER) for
      their help

    * Gaël Marziou for YAK

    * Stefan Becker for ToolManager

   I'm sure there are many more people I should mention here but they
don't come to my mind just now...
```

1.70 am.guide/Localization

```
                    Translating AM to another language
==================================
```

   Currently, there are six languages available for 'AM': English (the
builtin), German, Netherlands, Norwegian, Portuguese, and Swedish (see

                Crew
). If you'd like to translate 'AM' to another language, please ←
                 fill
in the translated strings in the blank 'am.ct' file which comes with
this distribution.

   In many cases, a look at the catalog descriptor ('am.cd') will help
you translate the strings in the right way. You can then compile the
new catalog using Commodore's 'CatComp' utility (or similar).

   But please don't spread your private catalog versions! If you have
a new catalog or just want to improve an already existing one, you
should contact the
                Author
                 of 'AM'.

1.71 am.guide/muFS

```
Short information on muFS
=========================
```

   muFS is an abbreviation for Multi User File System. It was created
by Geert Uytterhoeven for the Commodore Amiga computer. It works with
Amiga OS 2.0+ and is implemented as a normal DOS file system. So it
works with (nearly) all programs.

   For more information see the 'MultiUser.doc' which comes with the
muFS distribution.

1.72 am.guide/MUI

```
Short information on MUI
=========================
```

   MUI is an abbreviation for Magic User Interface. It was created by
Stefan Stuntz for the Commodore Amiga computer. To utilize MUI at least
a 68020 or better is recommended, your computer will be very slow

otherwise...

   For more information see the 'ReadMe.mui' which comes with this
distribution of 'AM'.

1.73 am.guide/Index

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*****

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                                   Add Secondary Group

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Name (User)
                                          Name (User)

New (Group)
                                          New (Group)

New (User)
                                            New (User)

Nobody
                                              Nobody

Ok (Group)
                                            Ok (Group)

Ok (User)
                                              Ok (User)

Open
                                                Open

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                                             Options

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                            Options-$HOME icons

UserID
                                                        UserID

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