MultiUser

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Contents

Chapter 1

MultiUser

1.1   MuMu Documentation

```
           MuMu 1.0 -- Documentation
           MultiUser Management Unit
            © 1994  Litrik De Roy

             Disclaimer
             Copyright

             Introduction
             System Requirements
             Installation
             Usage

             History
             Future

             Author
             Credits
```

1.2   disclaimer

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1.3   copyright

1.4   introduction

MuMu is a graphical extension of the MultiUser package. It is a utility that can be used by the SystemAdministrator (root) to maintain the system on which the MultiUser-FileSystem is installed.

Some features of MuMu are :

- Maintenance of a database containing information about users
  and groups

- Automatic generation of the password file and the group file

- Fully configurable

- Complete GUI

- System monitoring

- Commodity

- AmigaGuide documentation

1.5   About MultiUser

The MultiUser package is Copyrighted © Geert Uytterhoeven.

Extract of the MultiUser documentation :

    You've got an Amiga with Kickstart 2.04 or higher and several people are regularly fooling around with it ...   Last week your sister deleted your 20MB JPEG collection by mistake and you don't want this to happen again ... Well, here's the answer: MultiUser!

    MultiUser allows you to create a *IX-like environment where several users live together in harmony, unable to delete each others files, unable to read those private love-letters of other users ... And this even if several users are working on the machine at the same time (on a terminal hooked up to the serial port) ...

You are the sole user of your computer? Well, make sure it stays
that way by installing MultiUser! People without a valid login ID and
password won't be able to access files you have made private with
MultiUser. If you make all files private (not readable for others),
the only useful thing they could do, is boot from a floppy ...

And ... you do not have to reformat your hard drive!

1.6 System Requirements

MuMu requires :

- AmigaOS Release 2.04 (V37+)

- multiuser.library V39+ (© Geert Uytterhoeven)

- reqtools.library V38+ (© Nico François)

- that you are logged in as 'root'

1.7 installation

To install MuMu just double-click the Install icon.

or

You can install MuMu manually : (be sure you're logged in as 'root')

- Copy MuMu to a directory in your path (e.g. SYS:WBstartup)
- MProtect MuMu with RWED

- Copy the scripts to a directory in your path (e.g. $home/S)
- MProtect the scripts with SRWED

- Copy this doc to your favourite docs directory (e.g. $home/Docs)

1.8 usage

Please notice that during the explanation of the usage of MuMu I assume
that you have read the documentation of the MultiUser package and that you
fully understand its purpose and usage.

Some general topics :

    Commodity
    The DBase
    System Monitoring
    Commands
    Reports
    Settings

Using MuMu :

   Starting MuMu
   Main Window

1.9   MuMu as a commodity

   MuMu is a commodity and can be controlled by the Exchange utility. Also
you can specify some tooltypes in the icon (or arguments on the commandline).

   - CX_POPUP   : Show MuMu's window (default : OFF)

   - CX_PRIORITY : Priority of the commodity (default : 0)

   - HOTKEY   : Hotkey to popup MuMu's window (default : lamiga ctrl help)

1.10   The DBase

The MuMu-DBase is a database which contains all information about the users of
the system. (Users are sorted by their primary Group.)

When the DBase is saved, the password file and the group file will be updated
automatically. This way you don't have to edit these files 'by hand' and thus
you avoid inconsistencies between lines of one (or two) of these files.

1.11   Group's Data

The following information about a Group is stored in the DBase :

   Name   Type(Len)   Explanation
   -----   ---------- ------------

   GroupID   Str(31)   Name by which the Group is known to the system
                             (may not be empty and may not contain a '|')
   gid   Num   Groups's identifier
                             (will be generated automatically)
   Name   Str(63)   Group's full name
                             (may not contain a '|')
   Note   Str(127)   Some notes you would like to remember
   Excl   Bool   Excluded flag
                             (i.e. Do members have access to the system ?)
   Users   List   List of members
                             (i.e. Users who have this Group as primary Group
   Mgr   UserID   UserID of the Manager
                             (cfr. MultiUser doc)

Note:

   A Group which is excluded will stay in the DBase (with all the information

about its members intact) but its members will not appear in the password
file.

1.12 User's Data

The following information about a User is stored in the DBase :

```
   Name      Type(Len)   Explanation
   -----     ----------  ------------

   UserID    Str(31)     Name by which the User is known to the system
                               (i.e. the string the user has to enter at a
                                login request)
                               (may not be empty and may not contain a '|')
   uid       Num         User's identifier
                               (will be generated automatically)
   Name      Str(63)     User's full name
                               (i.e. in real life)
                               (may not contain a '|')
   Home      Str(127)    User's homedirectory
                               (i.e. the place where his/her files are placed)
   Port      Str(31)     (only for AS225 compatibility)
   Note      Str(127)    Some notes you would like to remember
   Excl      Bool        Excluded flag
                               (i.e. Does this User have access to the system ?)
   SecGrps   List        List of Secondary Groups
                               (cfr. MultiUser doc)
```

```
Note:
------
   A User who is excluded will stay in the DBase (with all his/her information
intact (even the password)) but will not appear in the password file.
```

1.13 System Monitoring

   MuMu implements a very simple form of system monitoring which is offered by
MultiUser.
   MuMu starts a task that displays information in the Main Window about users
logging on to the system. It shows the number of logins, UserID, GroupID and
time of first login.
   Extensive system monitoring will be one of the things to implement in
future releases. (Users logging out, tasks being killed etc.)

1.14 Commands

   MuMu uses 4 'Commands' for establishing a great flexibility in adapting
itself to its environment.
   These Commands can be edited in the settings and have to be confirmed
before execution.

NewGroup (Execute NewGroup / Group Window)
    This Command should setup an appropriate directory for the members of a new
Group.

    By default the script MuMu.Group is executed.

NewUser (Execute NewUser / User Window)
    This Command should setup an appropriate homedirectory (including
subdirectories) for a new User

    By default the script MuMu.NewUser is executed.

Check (Check System / Main Window)
    This Command should ensure that all vital files of the system have the
correct owner and protectionbits. Especially all MultiUser files should be
controlled since problems with these files might cause some serious security
problems.

    By default the script MuMu.Check is executed.

Backup (Backup System / Main Window)
    This Command should ensure that all vital files of the system are copied to
a safe place (a floppy-disk for example). All MultiUser- and MuMu files
should get a backup-copy on a floppy disk.
    REMEMBER that the slightest problem with one of your .keyfiles is fatal.
So MAKE BACKUPS OF YOUR .KEYFILES !!

    By default the script MuMu.Backup is executed.

NOTE:

    You should edit the 4 scripts before you use them so that they reflect the
configuration of your system.

1.15 Starting MuMu

    MuMu can be started from Shell or Workbench. (Remember to specify the
DONOTWAIT-tooltype if you decide to place MuMu in SYS:WBstartup)

    If you run MuMu for the first time and you want to access the DBase MuMu
will tell you that there isn't a saved DBase and he will ask if you want to
start with a clean DBase (i.e. 1 Group 'root' with 1 User 'root').
    Next you should access the dbase and add groups and users. You should NOT
save the DBase UNTIL you have created a user for every entry in the password
file. This is because you will lose the password of any user who is in the
password file but not in the DBase (MuMu assumes that you've deleted this user
from the DBase).
    Then you should check all the homedirectories of all users and use the
MProtect and SetOwner commands to restore the protectionbits and the ownership
of their files. I know this might take some time but you'll only have to do
it once. Read the note in the Configuration Window section for more details.

    I'll try to add the possibility of generating a DBase from the password
file in a future release. But this is easier said than done because a lot of
consistency checks have to be done on the password file.

```
Note:
------
    If you run MuMu for the first time it's probably a good idea to make a copy
of the password file.
```

1.16   Main window

```
    This  is  the main window of MuMu.  Here you can access the DBase, generate
reports, watch the system monitoring etc.

Gadgets
--------

Listview
    The results of the System Monitoring

Access DBase ('D')
    Opens the DBase Window

Edit Configuration ('C')
    Opens the Configuration Window

Report ('R')
    Generate a report for MuMu

System Check
    Lets you execute the Check Command

System Backup
    Lets you execute the Backup Command

Hide ('H')
    Hides MuMu

Quit ('Q')
    Quits MuMu

Project-Menu
-------------

Access DBase ('Amiga-D')
    See above

Edit Configuration ('Amiga-C')
    See above

Report ('Amiga-R')
    See above

About ('Amiga-?')
    Shows version number etc.

Hide ('Amiga-H')
    See above
```

```
Quit ('Amiga-Q')
   See above

Settings-Menu
-------------

    In this menu you can adjust the Settings for MuMu.
```

1.17 Generating Reports

```
    There are 4 types of reports :

    MuMu Report
    DBase Report
    Group Report
    User Report
```

1.18 MuMu Report

```
   You will be asked for a filename and then all information concerning MuMu
 will be written to this file.

Example

-MUMU-MAIN-REPORT---MUMU-MAIN-REPORT---MUMU-MAIN-REPORT---MUMU-MAIN-REPORT--

  MuMu 1.0
  Date : Wednesday 26-Jan-94
  Time : 14:24:10


  MultiUser Management Unit
   © 1994 Litrik De Roy
  MuMu 1.0 (26.1.94)

  Settings :
    ReportDir : T:
    ShowUtil  : PPMore
    NewGroup  : MuMu.NewGroup DIR SYS:Users/%g
    NewUser   : MuMu.NewUser USERID %u HOME %h
    Check     : MuMu.Check STARTUP
    Backup    : MuMu.Backup TO T:
    Output    : CON:0000/0000/0640/0200/MuMu Output/CLOSE/WAIT

  System Monitoring :

    # User            Group           Since
  --- -----           ------          ------
    4 litrik          expert          Startup
    3 root            root            Startup
```

```
--MUMU-REPORT-END----MUMU-REPORT-END----MUMU-REPORT-END----MUMU-REPORT-END--
```

1.19   DBase Report

   You will be asked for a filename and then all information concerning the
DBase will be written to this file.

Example

```
-MUMU-DBASE-REPORT--MUMU-DBASE-REPORT--MUMU-DBASE-REPORT--MUMU-DBASE-REPORT-

  MuMu 1.0
  Date : Wednesday 26-Jan-94
  Time : 14:24:17


DBase :
--------
  # Groups : 3
  # Users : 3
  # Free Users : 61437
  # Free Groups : 63485
  # Free Guest-Users : 4095
  # Free Guest-Groups : 2048

--MUMU-REPORT-END----MUMU-REPORT-END----MUMU-REPORT-END----MUMU-REPORT-END--
```

1.20   Group Report

   You will be asked for a filename and then all information concerning the
Group will be written to this file.

Example

```
-MUMU-GROUP-REPORT--MUMU-GROUP-REPORT--MUMU-GROUP-REPORT--MUMU-GROUP-REPORT-

  MuMu 1.0
  Date : Wednesday 26-Jan-94
  Time : 14:24:22


GroupID : expert
----------
  Name : expert
  gid : 2048 (0x0800)
  Note :
  # Users : 1
  # Secondary Users : 0
  Manager : root (65535)
  Excl : no
```

```
--MUMU-REPORT-END----MUMU-REPORT-END----MUMU-REPORT-END----MUMU-REPORT-END--
```

1.21 User Report

You will be asked for a filename and then all information concerning the
User will be written to this file.

Example

```
-MUMU-USER-REPORT---MUMU-USER-REPORT---MUMU-USER-REPORT---MUMU-USER-REPORT--

  MuMu 1.0
  Date : Wednesday 26-Jan-94
  Time : 14:24:26


  UserID : litrik
  ---------
    Name : Litrik De Roy
    uid : 4096 (0x1000)
    gid : 2048 (0x0800)
    Home : Applic:Users/litrik
    Port : cli
    Note :
    Excl : no
    # Manager : 0
    Secondary Groups : 1
      root (65535)

--MUMU-REPORT-END----MUMU-REPORT-END----MUMU-REPORT-END----MUMU-REPORT-END--
```

1.22 Saving of the DBase

Saving the DBase happens in several steps :

1

The passwordfile is scanned and all the passwords are collected

2

A new version of the passwordfile is generated from the DBase (if any
 passwords were changed they are now updated)

3

The old version of the passwordfile is deleted

4

The new version of the passwordfile is renamed (and thus all changes are in
 effect)

5

The old version of the groupfile is overwritten by a new one

```
6
    The DBase is saved
```

Note:

    The saved DBase contains only the passwords of excluded users. Users who
are not excluded (and thus have an entry in the passwordfile) have their
password in the passwordfile.

    Steps 2-4 guarantee that if anything goes wrong when saving the new
passwordfile no harm will be done since the old passwordfile is not
overwritten until everything is ok.

1.23 DBase window

    In this window you can edit the data of the DBase. For a full description
of the information stored see The DBase.

Gadgets

Statusline
    Indicates the status of the DBase (Ok / Altered)

Groups
    List of all Groups in the DBase

Add ('A')
    Add a Group to the DBase. You will be prompted for a GroupID and you'll
     have to enter whether EVERY member of this group should be allowed to
     change his password or not. Next, this Group will be created and you will
     be able to fill in the rest of the data.

Delete ('D')
    Delete the currently selected Group (must be confirmed)

View ('V' 'return')
    Open the Group Window for the currently selected Group

Save ('S')
    Saving of the DBase

Close ('C')
    Closes the DBase without saving

Project-Menu

Report ('Amiga-R')
    Generate a DBase Report

Save ('Amiga-S')
    See above

```
Close ('Amiga-C')
   See above


Search-Menu
------------

GroupID ('Amiga-G')
   Search a Group in the DBase.  You will be prompted for the GroupID.
   (case insensitive)

GroupName
   Search a Group in the DBase.  You will be prompted for the Name.
   (case insensitive)

gid
   Search a Group in the DBase.  You will be prompted for the gid.

UserID ('Amiga-U')
   Search a User in the DBase.  You will be prompted for the UserID.
   (case insensitive)

UserName
   Search a User in the DBase.  You will be prompted for the Name.
   (case sensitive)

uid
   Search a User in the DBase.  You will be prompted for the uid.
```

1.24 Group Window

```
    In this window you can edit the data of a Group.  For a full description of
the fields used to store the information see Group's Data.

Gadgets
--------

GroupID
   GroupID for the Group

Pwd Change
   Indicates  whether  EVERY  User  of  this  Group  is  allowed to change his
    password

Excl ('X')
   Excluded flag for the Group

Name
   Name for the Group

Note
   Note for the Group

Manager
   Manager for the Group
```

```
Users
   List of all Users in this Group

Add ('A')
   Add a User to this Group.  You will be prompted for a UserID and if not all
    members  of this Group are allowed to change their password you'll have to
    enter whether THIS member should be allowed to change his password or not.
    Next,  this  User will be created and you will be able to fill in the rest
    of the data.

Delete ('D')
   Delete the currently selected User (must be confirmed)

View ('V' 'return')
   Open the User Window for the currently selected User

Execute NewGroup
   Lets you execute the NewGroup Command

Project-Menu
-------------

Report ('Amiga-R')
   Generate a Group Report

Close ('Amiga-C' 'esc')
   See above
```

1.25 User Window

```
   In  this window you can edit the data of a User.  For a full description of
the fields used to store the information see User's Data.

Gadgets
--------

UserID
   UserID for the User

Pwd Change
   Indicates whether the User is allowed to change his password

Excl ('X')
   Excluded flag for the User

Name
   Name for the User

Secondary Groups ('G')
   Open the Secondary Groups Window to change the Secondary Groups

Home
   Homedirectory for the User

Port
```

```
      Port for the User

Note
   Note for the User

Last Login
   Displays last login date

.plan
   Shows contents of the User's '.plan'

.profile
   Shows contents of the User's '.profile'

.sig
   Shows contents of the User's '.sig'

Execute NewUser
   Lets you execute the NewUser Command

Project-Menu
-------------

Change password ('Amiga-P')
   Let's you change the password of the user.  You will be asked to type the
    new password twice and the next time the DBase is saved the new password
    will be in effect.

Report ('Amiga-R')
   Generate a User Report

Close ('Amiga-C' 'esc')
   See above
```

1.26 Settings

```
    These settings can be adjusted in the Settings menu in the Main Window.

Log (which actions of MuMu should be logged in
            the log file of MultiUser)
   Startup
   Gen. Passwordfile
   Save DBase

Report
   Monitoring  :  a global report about MuMu will also contain a report about
                   the System Monitoring
   Group : a report about the DBase will also contain the reports about every
           Group in the DBase
   User  : a report about a Group will also contain the reports about every
            User in the Group
   Dir : default directory for reports

Misc
   Windowpos    : remember window positions
```

```
    Show utility : name  of the utility to show contents of textfiles
                     (.profile, .plan etc.)

Templates
   Group : edit the Group Template
   User  : edit the User Template


Commands (Command to be executed when...)
   NewGroup : a new Group is created
               ('%g' in this Command will be replaced by the GroupID before
                the Command is executed)
   NewUser  : a new User is created
               ('%u' in this Command will be replaced by the UserID before
                the Command is executed)
               ('%h' in this Command will be replaced by the homedirectory
                before the Command is executed)
   Check    : the system should be checked
   Backup   : a backup of the system should be made
   Output   : 'file' to write the output of these commands to

Save Settings
   Save settings to disk
```

1.27 User Template

```
   In  this  window  you  can edit the default information for a newly created
User.

Excl ('X')
   Excluded flag for the User

Name
   Name for the User

Name = UserID
   The  name of the User will be the same as the UserID.  This will probably
be  a  good  guess  for  the  Name  since  it will look a lot like the UserID
(although probably less cryptic).

Home
   Homedirectory for the User

Concat Group
  The GroupID will be appended to the homedirectory specified in the Homegadget.

Concat User
  The UserID will be appended to the homedirectory specified in the Homegadget.

Note
   Note for the User

Port
   Port for the User
```

```
Use ('U')
   Use the new Template

Cancel ('C')
   Cancels the whole operation
```

1.28   Group Template

```
    In  this  window  you  can edit the default information for a newly created
Group.

Excl ('X')
   Excluded flag for the Group

Name
   Name for the Group

Name = GroupID
   The  name of the Group will be the same as the GroupID.  This will probably
be  a  good  guess  for  the  Name  since  it will look a lot like the GroupID
(although probably less cryptic).

Note
   Note for the Group

Use ('U')
   Use the new Template

Cancel ('C')
   Cancels the whole operation
```

1.29   Configuration Window

```
    In   this   window  you  are  be  able  the  edit  the  configuration  file
('MultiUser.config')  which  is  used  by  MultiUser  to get some user-defined
options and settings.

List of options
   Please  read  the  documentation of MultiUser for a full explanation of all
    these options

Save ('S')
   Saves 'MultiUser.config' to its appropriate directory

Cancel ('C')
   Cancels the whole operation


Note:
------
   The options PASSWDUIDLEVEL and PASSWDGIDLEVEL are hardcoded by MuMu!  I did
this because changing one of these values (by accident or on purpose) can have
```

serious   consequences which are very difficult to oversee if you have a lot of
Users.
   The   purpose of these two options is to have the ability to define users as
guests (so they can't change their passwords). If you change one (or both) of
these options some Users might get another status.
   Since   there   are   too   much   limitations   on changing the status of a user
(guest   <>   normal   i.e. changing password not allowed <> allowed) by changing
these options, I decided to give PASSWDUIDLEVEL and PASSWDGIDLEVEL a hardcoded
value of 4096 resp. 2048.

   This   means you can have 4096 guests in 2048 Groups, and you can not change
the status of a User ! (These limitations should be sufficient)

1.30 Secondary Groups Window

   In   this   window   you   can   choose   the   Secondary   Groups   of a User. All
available   Groups   are listed under 'Available' and all Secondary Groups under
'Member'.

```
cursorkeys
   Move in/between lists

-> ('return')
   Move Group to the Member list

<- ('return')
   Move Group to the Available list
```


1.31 history

 Version 1.0

1.32 Version 1.0

Date : 26 Jan '94

First public release.

1.33 future

I'm thinking about the following features :

```
   - Improved System Monitoring
   - MultiUser logfile maintenance
   - Online help
   - Font-sensitivity
```

But of course the most important thing to do in the future is to keep MuMu
compatible with the latest version of the MultiUser package. This means that
when a new MultiUser package (with some new features) is released, I will try
to update MuMu (according to these new features) as soon as possible.

1.34 The author

If you want to reach me (for bug reports, suggestions, comments, postcards
etc.), you can do this in the following ways :

FidoNet (fastest)
   2:292/603.61

Snail-Mail
   Litrik De Roy
   Schaapsvijver 11
   B3200 Aarschot
   BELGIUM

If you don't have FidoNet access and you think snail-mail is too slow then
you can try to contact me via Geert Uytterhoeven (Check the MultiUser
documentation for this). He's the author of MultiUser and since I'm a
MultiUser-betatester (and he's a MuMu-betatester) I stay in touch with him.

```
+-------------------------------------------+------------------------------+
|                                           |                              |
| And if I put this gun against my head     | En ik denk helder en bezopen |
| and pull the trigger I'll be dead         | aan wat ik liever anders had |
| But if I listen to my heart               | gedaan en                    |
| it says, Billy that ain't smart           | aan de kans die je           |
| so I'll shoot someone else instead        | nooit moet laten lopen        |
|  Billy's smart circus / Carter the USM    | degeen die je niet moet      |
|                                           | laten gaan                   |
|                                           |  Kans / The Scene            |
+-------------------------------------------+------------------------------+
|                                                                          |
| I know you want what's on my mind, I know you like what's on my mind,    |
| I know it eats you up inside, I know, you know, you know                 |
| Sex type thing / Stone Temple Pilots                                     |
|                                                                          |
+--------------------------------------------------------------------------+
```

1.35 credits

Special thanks go to the following people :

Geert Uytterhoeven for developing the MultiUser package. It's great stuff
with a lot of potential. Also thanks for betatesting and helping me with the
enforcer hits (I hope they're gone :^)

Nico François for developing the incredible Reqtools package. So powerful and
yet so easy to use.

Jan van den Baard for GadToolsBox V2.0 (© Copyright 1991-93 Jaba Development)
I use it for generating the skeleton of the GUI, and then I adjust the
generated source (to eliminate some bugs, add backfilling, add newlook menus
etc.).

Herman Stevens for running such a great Amiga BBS.