

MultiUser

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Contents

1	MultiUser	1
1.1	MuMu Documentation	1
1.2	disclaimer	1
1.3	copyright	2
1.4	introduction	2
1.5	About MultiUser	2
1.6	System Requirements	3
1.7	installation	3
1.8	usage	3
1.9	MuMu as a commodity	4
1.10	The DBase	4
1.11	Group's Data	4
1.12	User's Data	5
1.13	System Monitoring	6
1.14	Commands	6
1.15	Starting MuMu	7
1.16	Main window	7
1.17	Generating Reports	8
1.18	MuMu Report	9
1.19	DBase Report	9
1.20	Group Report	10
1.21	User Report	10
1.22	Saving of the DBase	11
1.23	DBase window	12
1.24	Group Window	13
1.25	User Window	14
1.26	Settings	15
1.27	User Template	16
1.28	Group Template	17
1.29	Configuration Window	17

1.30 Secondary Groups Window	18
1.31 history	18
1.32 Version 1.0	18
1.33 future	19
1.34 The author	19
1.35 credits	20

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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1.4 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.

1.35 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 :^)

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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.
