MirrorManager

A local Aminet mirror management system for the Amiga Edition 0.8beta, for Version 1.8 20 June 1994

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This is the second edition of the MirrorManager documentation, and is consistent with version 1.8 of 'MirrorManager'.

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1 Introduction

MirrorManager is an ARexx based management system for directory trees. It is particularly useful for BBS or Mailbox sysops who use to download from an Aminet (ftp)site. It is however also useful for 'normal' users (like e.g. the authors) who simply hesitate to delete new software.

Before there was MirrorManager our usual way to archive downloaded files was very simple: We moved them from the 'incoming' directory to a quickly blowing up archive directory which of course lead to confusion and chaos. But there is a much better way to organize a download archive: The local Aminet mirror ...

However, the Aminet hierarchy is not fix (in fact it changes quite often) and so keeping the proper Aminet hierarchy manually is obviously a work intensive task. But now MirrorManager is born and MirrorManager handles all this for you!

In detail, MirrorManager does the following:

- MirrorManager creates the complete Aminet tree in a given directory adding AmigaDOS filenotes to these directories according to those in the Aminet 'TREE' file.
- MirrorManager adds filenotes to the files in your 'incoming' directory according to those listed in the Aminet 'INDEX' file.
- MirrorManager copies or moves the files in your 'incoming:' path to the location in your local Aminet mirror which is listed in the Aminet 'INDEX' file or optionally to a directory which is mapped to this location.
- MirrorManager examines your local Aminet mirror and reports differences in name, location and comment there and in the Aminet 'INDEX' file.
- MirrorManager generates an index file for your local Aminet mirror.

MirrorManager is fully ARexx based and everything it does can be controled via ARexx. ARexx commands are discussed in Chapter 8 [ARexx Commands], page 16. See Chapter 7 [ARexx Scripts], page 13, for information about the supplied ARexx script files.

You also need to set-up several paths and filenames in order to use MirrorManager. See Chapter 2 [Installation], page 2, Chapter 3 [Configuring], page 3 for details.

2 Installing MirrorManager

MirrorManager is distributed together with the Installer program from Commodore. See Chapter 12 [Installer], page 33, for more information.

Simply double-click the 'Install-MirrorManager' icon to install MirrorManager to disk.

We spent much time and tried to be extremly careful when writing this Installer script. Mirror-Manager needs neither assigns nor environment variables so the Installer script will not modify any parts of your system. During the installation procedure a directory 'MirrorManager' will be created and all files will be copied into this directory. No other parts of your disk will be touched unless you do not specify them explicitly. We also included many help texts. Please read them if you are not sure about what's going on!

After installing MirrorManager you need to set-up several paths and filenames. See Chapter 3 [Configuring], page 3, for more information.

Note: MirrorManager needs MUI. See Chapter 11 [MUI], page 32, for information about how to obtain it. You should also have the actual Aminet 'INDEX' and 'TREE' file to take off with MirrorManager.

3 Configuring MirrorManager

MirrorManager comes with the 'MirrorManager' MUI application and several ARexx scripts configuring the GUI.

This chapter explains how to configure the MirrorManager GUI application. If you are only interested in the supplied ARexx Shell scripts then you might want to skip this part.

There are however also ARexx scripts which can be used from within the Shell and which do not need the MUI application.

3.1 MirrorManager Configuration Scripts

Before MirrorManager can take off you need to create a configuration script containing the path and filenames of your personal installation. This is quite obvious, since MirrorManager needs to know where to find your local Aminet mirror.

A configuration script is an ARexx program which is executed when you select the Project/Load... menu item. Of course these configuration scripts make extensive use of the GUI built-in ARexx command ADD. See Section 8.3 [MirrorManager ARexx commands], page 18, for details.

One way to configure MirrorManager is using the GUI's Edit menu. This is however a dull job — especially if you are configuring MirrorManager from scratch. For this reason I included my personal configuration script 'MirrorManager.rexx', which contains the most needed features. You will however need to change the path and filenames in 'MirrorManager.rexx' because these are correct for my personal installation only.

The prefered way to set-up 'MirrorManager.rexx' for your installation is using the supplied Installer script 'Configure', which can be found in the 'MirrorManager/rexx' drawer. 'Configure' will ask you interactively for all needed paths and filenames and it offers a short help text on every step. See Section 3.2 [Using Configure], page 4, for more information.

Alternatively you can edit 'MirrorManager.rexx' with a text editor like e.g. 'MEmacs'. This can however only be recommended for advanced users because it requires a little bit more knowledge of the MirrorManager interna. See Section 7.1 [MirrorManager scripts], page 13, 'MirrorManager.rexx' for details.

3.2 Using Configure

Coming with MirrorManager is my personal configuration script 'MirrorManager.rexx'. Since this file contains absolute path and filenames which are valid in my environment only, you need to set-up 'MirrorManager.rexx' for your installation before you can use it. The prefered way to to set-up these values is with the aid of the Installer script 'Configure', which is located in the 'MirrorManager/rexx' drawer.

Simply double-click the 'Configure' icon. You will be asked for all needed path and filenames and on every step a short help text will be available.

After you satisfied 'Configure' with all requested locations, the CONFIGNAME ToolType in the 'MirrorManager' program icon will be set to 'rexx/MirrorManager.rexx'. This forces Mirror-Manager to load this configuration script when starting up.

'Configure' will remember your settings. I.e. if you run 'Configure' again, it will prompt with your last selection for each file and pathname.

Advanced users may prefer editing 'MirrorManager.rexx' with a text editor like e.g. 'MEmacs'. See Section 7.1 [MirrorManager scripts], page 13, for details.

Caution: If any path filename in 'MirrorManager.rexx' has been modified without using the 'Configure' script, then 'Configure' will *not* prompt with the current default. This is due to the Installer program, which does not support evaluation of code at run-time. Use the supplied Shell script 'SetConfigureDefaults' to copy your assignments from 'MirrorManager.rexx' to 'Configure'¹.

3.3 ToolTypes and Command Line Arguments

Unless you did not change the default configuration, MirrorManager will come up with a tutorial demo. To change this you should modify the MirrorManager ToolType value CONFIGNAME. Here is a list of legal ToolTypes:

CONFIGICON=...

If this ToopType is given, MirrorManager will create a project icon when saving the configuration from within the GUI. For example, CONFIGICON=xtras/def_mm.info

will force MirrorManager to use 'def_mm.info' from the 'xtras/' drawer as the default icon. As you can see in the above example, the path to the project icon can

¹ I'm terribly sorry for that unsuffisticating solution, but I have no idea how to solve this problem in a better way. Please contact me if you have a good idea!

be specified relative to the MirrorManager tool, i.e. relative to 'PROGDIR:'. Absolute pathnames like e.g. 'env:sys/def_mima.info' would be legal as well.

Note: MirrorManager tries to be very careful with your project icon.

- MirrorManager will adjust the stack size in your project icon to the maximum of the values in the MirrorManager tool icon your default project icon. Note that MirrorManager needs at least 10240 bytes of stack!
- MirrorManager will set the icon position of the CONFIGICON to NO_ ICON_POSITION.

By default, i.e. if no CONFIGICON ToolType is given, no icon will be saved with the configuration.

APPSTART=...

This ToolType defines the default application startup method. Actually it it used to force a certain default tool entry in the project icon saved with the configuration. If no project icon has been specified via the CONFIGICON ToolType then APPSTART does nothing.²

For example,

APPSTART=/MirrorManager

sets the default tool for the configuration icon specified via CONFIGICON to be 'MirrorManager' in the parent directory.

By default, MirrorManager will choose the default tool for the saved project icon in the following way:

- If the configuration is saved into a drawer inside the MirrorManager directory then MirrorManager will use a relative pathname, i.e. a pathname relative to MirrorManager's 'PROGDIR:'. This has the advantage that you can move your MirrorManager directory to any location on your hard drive without changing the default tool for all existing project icons.
- On the other hand, if you select a save path for your configuration which is located outside the MirrorManager directory then MirrorManager will use an absolute pathname for the project icon's default tool.

CONSOLE=...

This ToolType sets the default console window for ARexx. You normally do not need this console window and so the default is CONSOLE=NIL:

It is however useul to set a console window like e.g. CONSOLE=CON:30/20/600/80/MirrorManager/CLOSE/AUTO

² This is a lie: In fact, if you force icon creation by selecting the 'Create Icons' item in the Settings menu without specifying a project icon via the CONFIGICON ToolType then MirrorManager uses the system default project icon (usually 'env:sys/def_project.info') and adjusts the default tool for this icon according to the ToolType value of APPSTART.

for debugging purposes.

CONFIGNAME=...

This ToolType specifies the startup configuration scriptfile. By default a tutorial demo configuration script will be loaded on startup.

CONFIGNAME can also be used as a Shell argument keyword. If you execute Mirror-Manager from within a Shell then you can specify the configuration scriptfile either relative to your current directory or with an absolute pathname.

The ToolType value can be given as an absolute pathname or relative to the GUI application's path: 'PROGDIR:'.

MAXPATHLEN=...

Not implemented yet!

MAXITEMLEN=...

Not implemented yet!

MAXCOMMANDLEN=...

Not implemented yet!

MAXARGLEN=...

Not implemented yet!

4 Creating an Aminet Hierarchy

This chapter explains the initial creation of the local Aminet mirror. Please make sure that MirrorManager is installed and configured before you go on reading here. See Chapter 2 [Installation], page 2, Chapter 3 [Configuring], page 3 for details.

5 Description of the ListView Items

When starting MirrorManager with the configuration script 'MirrorManager.rexx' last will add some items to the ListView. This chapter will explain the use of these items.

You must have configured the file 'MirrorManager.rexx' to follow the steps below. See Chapter 3 [Configuring], page 3, for more information. You might want to skip this chapter if you don't want to use the MUI application.

Create/Update Aminet TREE

This item executes 'MakeTree' in order to create the complete Aminet directory hierarchy from your Aminet 'TREE' file. A filenote will be added to all directories listed in the 'TREE' file.

Delete Empty Directories

This item executes 'CutTree.mm' on your Aminet directory which will delete all empty directories there.

Update Aminet DirNotes

For each existing directory in your Aminet Hierarchy, a filenote will be added. The filenote will be read from the Aminet 'TREE' file.

Add FileNotes to INCOMING

For all files in your incoming directory a filenote will be added. Last will be looked up in the Aminet 'INDEX' file.

Add FileNotes from RECENT

Works like Add FileNotes to INCOMING except that the filenotes will be looked up in the 'RECENT' file.

Add FileNotes from WANTED

Works like Add FileNotes to INCOMING except that the filenotes will be looked up in the 'WANTED' file.

Cleanup INCOMING

Works like Add FileNotes to INCOMING. Additionally the files will be moved into the correct directory in your Aminet hierarchy. Non-existant directories will be created.

Cleanup with new RECENT

Works like Cleanup INCOMING except that the filenotes and the destination directory will be looked up in the 'RECENT' file.

Create FAST Index

Splits the Aminet 'INDEX' file and creates several small 'FAST' index files. These files will be written to the fast index path which has been asked for in the 'Configure' script.

Create/Update LOCAL Index

A local index file will be created for your local Aminet mirror.

Edit LOCAL Index File

Edits your local Aminet mirror's index file.

Reorganize Local Mirror

Compares the contents of your local index file with the Aminet 'INDEX' file. Files located in a different directory than listed in the Aminet 'INDEX' file will me moved to the correct location. Non-existant directories will be created automatically.

Files which do not exist in the Aminet 'INDEX' will be moved to the KickedPath, a directory which has been asked for in the 'Configure' script.

Re-Insert Kicked Out Files

Files which have been moved to the KickedPath (e.g. by Reorganize Local Mirror) will be moved back to their former location.

Caution: This operation needs your former local index file to look up the kicked out files' locations. I.e. you should not update your local index file after calling **Reorganize Local Mirror** if you want to move back some of the kicked out files into their old directories.

Sort Aminet INDEX File

Some people prefer an Aminet 'INDEX' file which is sorted by filenames, not by directories. This item asks you for the first sorting creterium and then sorts the Aminet 'INDEX' file accordingly.

Edit Aminet INDEX File

This item runs an Editor and loads the Aminet 'INDEX' file.

Edit WANTED Index

This item runs an Editor and loads your 'WANTED' file.

Edit Configuration Script

This item runs an Editor and loads this configuration sctiptfile.

6 Menu Items and Menu Structure

6.1 The Project Menu

| Load | This will bring up a filerequester asking for a MirrorManager configuration. |
|---------|---|
| | Because MirrorManager configurations are based on ARexx it will be loaded by executing it as an ARexx script, configuring MirrorManager via its ARexx port. |
| | See also: ARexx command LOAD |
| Save | This will write your current configuration to disk without asking for a filename. It will be written over the last loaded configuration which will be deleted by this action. So be careful with this command! |
| | See also: ARexx command SAVE |
| Save As | |
| | This will bring up a filerequester asking for a name under which you would like to save your current configuration. |
| | See also: ARexx command SAVE |
| Locked | This switch is set by MirrorManager whenever it executes an ARexx script or com- mand and is unset as soon as MirrorManager has finished processing and is idle again. |
| | If you unset this switch you are able to execute further ARexx commands but this might be dangerous: |
| | Most ARexx scripts in the MirrorManager package work directly on your files, moving them from one directory to another, adding filenotes etc. |
| | Every MirrorManager ARexx script writes information into the MirrorManager Working Window. |
| | Because of these two facts the scripts might 'disturb' each other. So the default behaviour of the scripts is to lock the MirrorManager GUI. |
| | See also: ARexx command LOCK |
| About | This will bring up an About requester with some information about MirrorManager and its authors. |
| Quit | This will terminate MirrorManager. If your configuration has changed since you last saved it you will have to confirm a requester to actually quit MM. Note: MirrorManager will not quit under the following circumstances: there are some open filerequester the application is locked there are still some ARexx commands running |
| | |

6.2 The Edit Menu

| Add | This will add an entry at the bottom of the listview. The initial name of the new entry is set to ' UNNAMED', the command and argument fields are emtpy. |
|--------|--|
| | See also: ARexx command ADD |
| Insert | This will insert an entry into the listview at cursor position. The initial name of the new entry is set to "– UNNAMED –", the command and argument fields are emtpy. |
| | See also: ARexx command INSERT |
| Remove | This will delete the currently active entry in the listview and activate its successor. |
| | See also: ARexx command REMOVE |
| Clone | This will make an identical copy of the currently active entry at cursorposition. |
| | See also: ARexx command CLONE |
| Edit | This will bring up a new window where you are able to edit a listview entry. As long as the 'Edit Window' is open the 'Main Window' is busy. |
| | An entry is split into three parts: |
| | - The name of the entry appearing in the listview. |
| | - The command which has to be an ARexx script or inline code. |
| | The arguments for the command. If you specify inline code in the command field the argument field is ignored. |
| Clear | This will remove all entries from the list view and unset the internal $\tt CONFIGNAME$ variable. |
| | See also: ARexx command CLEAR |
| Sort | This will perform a case insensitive sort on the entries in the listview. |
| | See also: ARexx command SORT |
| Тор | This will move the currently active entry to the beginning of the listview. |
| | See also: ARexx command TOP |
| Up | This will move the currently active entry in the listview one line up. |
| | See also: ARexx command UP |
| Down | This will move the currently active entry in the listview one line down. |
| | See also: ARexx command DOWN |
| Bottom | This will move the currently active entry to the end of the listview. |
| | See also: ARexx command BOTTOM |
| | |

6.3 The Output Menu

Open Window

This will open the 'Working Window' where the MirrorManager ARexx scripts will print their information.

Clear Window

This will clear the contents of the 'Working Window'

See also: ARexx command MESSAGE

Save Log...

This will bring up a filerequester asking you for a filename under which you would like to save the contents of the 'Working Window'.

See also: ARexx command SAVELOG

7 ARexx Scripts

All ARexx scripts coming with MirrorManager expect their arguments introduced by a keyword which must be seperated from the argument value by one or more SPC characters.

For example,

rx MakeTree.rexx FROM "treefile" TO "pathname"

is the correct way to run MakeTree.rexx which has the template FROM/K/A,TO/A

Caution: Legal keywords for each command are listed here in ReadArgs() template style. There is however a difference between the way ReadArgs() parses the arguments and the way we do.

For example,

rx MakeTree.rexx FROM="treefile" TO="pathname"

would be legal for ReadArgs() but it is *not* legal for the ARexx scripts listed here. The '=' is not a legal keyword value delimiter for ARexx.

There are '.rexx' and '.mm' script files coming with the MirrorManager distibution

- ".rexx" script files are absolutely *independent* and do never address to the MirrorManager's GUI application. This means that you can execute them from a CLI/Shell, configure them for a use with Stefan Becker's ToolManager, or install them on any directory management application.
- '.mm' script files need the MirrorManager MUI application. They depend on the way the GUI passes arguments to it's ARexx scripts and they heavily use the ARexx commands offered my the MUI application.

In addition to the options listed below, '.mm' scripts usually know a switch AUTO/S. Last can be used to force closing of the message window after the script has completed.

7.1 MirrorManager ARexx scripts

MakeTree FROM/K/A, TO/A, NOCREATE/S

MakeTree.rexx creates all directories listed in the given FROM file relative to a given TO directory. The directory structure and a comment for each directory will be taken from that FROM file, which is usually called 'TREE' in case of the Aminet.

The 'TREE' file will be scanned top-down and line by line, empty lines are ignored as well as lines beginning with a '#' character. The first word (i.e. everything upto the first white space) in each line will be taken as the directory name, the rest of the line will be added as a filenote to the directory.

For example, executing rx MakeTree.rexx FROM tree TO a:b with the file 'TREE' looking somewhat like this

All directories on Aminet

| new | Upload area |
|---------|------------------------------------|
| recent | Files uploaded the last seven days |
| biz | Business software |
| biz/cad | Computer aided design |
| | |

creates the directories 'a:b/new', 'a:b/recent', ... adding the filenotes (comments) 'Upload area', ... respectively.

Caution: MakeTree.rexx is smart enough to create a path 'a:b/c' by creating the directory 'a:b' before creating 'a:b/c'. However, 'a:' must be legal of course.

Using the option keyword NOCREATE will add filenotes for existing directories only. You might prefer this behaviour if you don't use to keep a complete Aminet hierarchy and CleanupIncoming or ExamineIndex created new directories.

MakeTree.rexx needs the AmigaDOS commands MakeDir and FileNote (and optionally RequestFile and Delete) available in your command searchpath.

CutTree PATH/A

CutTree deletes empty directories in the given path. I usually don't keep a complete Aminet directory hierarchy because many of them stay empty anyway and scanning them for new files

SplitIndex FROM/K/A,TO/K/A

bzzzzz.

MakeIndex FROM/K/A,TO/A

MakeIndex.rexx is ment to create a local Aminet mirror index. In general it creates a list of all files available in a given path including file size and file comment.

Caution: Due to a problem with pragma('D') you must execute this script using RX explicitly – even in the WShell.

This ARexx script needs the AmigaDOS commands List and Sort available in your path.

ExamineIndex FILE/K/A,WITH/K/A,PATH/K,MOVE/S,COMMENT/S,MAKEPATH/S,FAST/S hmmmmmm.

SortIndex FROM/K/A, FILE/S, DIR/S, QUICK/S, AUTO/S

CleanupIncoming FROM/K/A,TO/K,WITH=INDEX/K/A,MOVE/S,COPY/S,NOCOMMENT/S,MAKEPATH/S,REPLACE/S CleanupIncoming.rexx examines (non-recursively) the files in your 'incoming:' directory and looks them up in an Aminet mirror INDEX file. For each file in your 'incoming:' directory which is listed exactly *once* in the Aminet index file the following actions can be performed:

- A filenote (comment) can be added according to the one listed in your Aminet index file and
- The file can be copied (or moved) to the location listed in the Aminet index.

The Aminet directory hierarchy can be created using MakeTree.rexx

CleanupIncoming.rexx needs the AmigaDOS commands List, Sort, Search, Filenote, Copy and Delete available in your path.

MirrorManager.rexx

MirrorManager.rexx is the configuration file for the MirrorManager MUI application. MirrorManager.rexx will be executed by it's host on startup when the ToolType or CLI option CONFIGNAME=rexx/MirrorManager.rexx was set. On the other hand if MirrorManager.rexx was executed via RX or by double-clicking on it's icon and no empty application is running then it tries to run it's own MirrorManager executable. If you want to write your own configuration scripts then you should see Section 8.5 [Hints], page 25, for details.

To set-up path and filenames in MirrorManager.rexx you should use the configure script, which can be found in the 'MirrorManager/rexx' directory. See Section 3.2 [Using Configure], page 4, for further details.

Demo

Demo.rexx demonstrates the use of the GUI's ARexx interface. You should execute this demo either via double-clicking on its icon or by loading it as a *configuration* via Project/Load. The actions performed by 'Demo.rexx' are fully self-explaining and need no further documentation here.

whoami.rexx

This script resolves the own path and filename. We decided to include this scriptfile as a tutorial example because it is quite a difficult task to do this correctly.

Currently the PARSE SOURCE instruction is limited to a length of 64 characters. This is an enormous problem since this makes it impossible for an ARexx script to resolve its pathname if it is located deeper in the directory hierarchy. We have reported this bug, but we did not receive a reply yet.

8 ARexx Commands

MirrorManager is fully ARexx based and everything it does can be controled via ARexx.

Since MirrorManager is a MUI application, it offers the default commands which are understood by every MUI program. Every MUI application is able to receive commands via the built-in ARexx port. (For more information about MUI see Chapter 11 [MUI], page 32)

If you want to write your own ARexx script files for MirrorManager you should also read Section 8.5 [Hints], page 25.

8.1 MUI built-in ARexx commands

QUIT Ends the application.

The behaviour of this command is very much like clicking the closing Gadget of the application or pressing RCOMMAND-Q or ESC.

- HIDE Hides (iconifies) the MirrorManager application. This will normally bring up the application icon 'MirrorManager.info' or if this is non-existant 'def_MUI.info' which will be loaded from 'env:sys/'. This can however be customized with the MUI Preferences program.
- SHOW Shows (pops up) the iconified MirrorManager application.

INFO ITEM/A

According to the given ITEM parameter the result string is filled with the following contents:

- TITLE Title of the application (I.e. 'MirrorManager')
- AUTHOR Author of the application

COPYRIGHT

Copyright message

DESCRIPTION

Short description

- **VERSION** Version string
- BASE Name of the ARexx port

SCREEN Name of the public screen

For example,

OPTIONS RESULTS ADDRESS 'MIRRORMANAGER.1'

| 'INFO | Title'; | SAY | "Application title" | result |
|-------|---------------|-----|------------------------------|--------|
| 'INFO | Author'; | SAY | "Author of the application:" | result |
| 'INFO | Copyright'; | SAY | "Copyright message" | result |
| 'INFO | Description'; | SAY | "Short description:" | result |
| 'INFO | Version'; | SAY | "Version string" | result |
| 'INFO | Base'; | SAY | "Name of the ARexx port:" | result |
| 'INFO | Screen'; | SAY | "Name of the pub screen:" | result |

HELP FILE/A

A list of all ARexx commands available for the application is written into the given file. In addition to the default commands MirrorManager supports many application specific commands. The help list will contain these commands as well.

For example,

ADDRESS 'MIRRORMANAGER.1'; HELP "ram:help.out"

creates the file 'ram:help.out' with the following contents:

Standard-Commands:

| Command | Template |
|---------|----------|
| | |
| quit | |
| hide | |
| show | |
| info | ITEM/A |
| help | FILE/A |

Commands for application "MirrorManager":

| Command | Template |
|---------------|---|
| | |
| sort | |
| clear | |
| numentries | |
| add | NAME/A,COMMAND/A,ARGS |
| clone | NAME |
| remove | NAME |
| rename | NAME/A |
| execute | NAME |
| activate | NAME |
| up | NAME |
| down | NAME |
| top | NAME |
| bottom | NAME |
| load | FILE |
| save | FILE |
| configname | FILE |
| appstart | COMMAND |
| message | CLEAR/S,OPEN/S,CLOSE/S,STRING |
| complete | PERCENTAGE/N |
| working | STRING |
| requestchoice | TITLE/K,GADGETS/A,BODY/A |
| requestfile | DRAWER, FILE/K, TITLE/K, SAVEMODE/S, DRAWERSONLY/S, NOICONS/S |
| | |

| savelog | FILE |
|---------|------------|
| lock | ON/S,OFF/S |

8.2 MUI Error codes

In case of an error, MUI returns the following values to the rexx script:

- -1 Wrong command definition in host program. (Should never happen.)
- -2 Out of memory.
- -3 Unknown ARexx command.
- -4 Syntax error.

If any of MirrorManager's own ARexx commands fail then either one of the above or 1 will be returned. In general: A value rc = 0 always indicates an error.

8.3 MirrorManager ARexx commands

SORT The SORT command performs a case insensitive sort on the MirrorManager's ListView. If SORT is called on an already sorted ListView then identically named entries will be exchanged.

Calling this function via ARexx has the same result as pressing RCOMMAND-S.

CLEAR The CLEAR command removes all items from the MirrorManager's ListView and it will unset the internal CONFIGNAME variable. As a consequence NUMENTRIES will return result = 0 after this action has been performed. This can also be achieved by pressing RCOMMAND-/.

NUMENTRIES

Returns the number of items in the MirrorManager's ListView.

For example,

ADDRESS 'MIRRORMANAGER.1' OPTIONS RESULTS

NUMENTRIES SAY 'There are currently' result 'items'

ADD NAME/A, COMMAND/A, ARGS

Creates a new entry and adds it to the *bottom* of the ListView. The contents of the NAME field will appear in the MirrorManager's ListView, COMMAND must contain the pathname of an ARexx program and ARGS are the arguments for this ARexx program.

For example,

```
ADDRESS 'MIRRORMANAGER.1'
ADD '"Add filenotes to INCOMING"',
    '"rexx/CleanupIncoming.mm"',
    '"FROM incoming: WITH aminet:INDEX"'
```

will add an item Add filenotes to INCOMING which calls 'CleanupIncoming.mm' with arguments FROM incoming: WITH aminet:INDEX.

Note that all the commata ',' in the above example are ARexx line continuation tokens. They must be removed if the ADD command is used in one single line.

When pressing RCOMMAND-A a new item will be added to the ListView. The new item will be named -- UNNAMED -- by default and can be edited pressing RCOMMAND-E.

New items will always become the active item of the ListView.

You may also write ARexx inline code into the COMMAND field. The ARGS field should however be empty then.

For example,

```
ADDRESS 'MIRRORMANAGER.1'
ADD '"Edit current config"',
'"*"OPTIONS RESULTS; CONFIGNAME; ADDRESS COMMAND ''Ed'' result*""'
```

will start an Editor 'Ed' with the name of the current configuration script as argument.

See Section 8.4.2 [Calling Method], page 23, for more information about how MirrorManager executes ARexx code.

CLONE NAME

The CLONE command makes an identical copy of an item in the ListView. If no name is given, then the active item will be cloned. The new item will be inserted directly before the original item in the list and it will become active¹.

CLONE can be called via RCOMMAND-C.

REMOVE NAME

The REMOVE command deletes an item from the ListView. If no name is given then the active item will be removed. REMOVE activates the next item if there is a next one, otherwise, if the removed item was the last in the list then its previous item (which now is the last item) will become active.

For example,

ADDRESS 'MIRRORMANAGER.1'

```
REMOVE '"Edit current config"'
```

removes the item in the above example. This operation is identical to pressing RCOMMAND-X.

RENAME NAME/A

The RENAME command changes the name of the active item to the given one. This operation will only redraw the active line in the ListView. Renaming the current

¹ This is a lie. To be honest: The new item will be added directly below the original entry. The active item remains unchanged.

item can also be done by editing this item either by pressing RCOMMAND-E or selecting Edit/Edit... from the menu.

EXECUTE NAME

Executes a command by the name of its entry in the ListView. If no name is given then the active item's command will be executed.

EXECUTE can also be performed by double-clicking or pressing the RETURN key on the desired item.

ACTIVATE NAME

ACTIVATE highlights a ListView item and makes it become the active item. If no name is given then ACTIVATE returns the name of the active item. Otherwise the command behind the given item will be returned.

For example,

OPTIONS RESULTS ADDRESS 'MIRRORMANAGER.1' ACTIVATE; name = result IF rc ~= 0 THEN SAY 'There is currently no active item.' ELSE D0 ACTIVATE '"' || name || '"'; cmd = result SAY name 'performs the following command:' cmd END

UP NAME Moves a ListView item one line up. If no name is given then the active item will be moved. This operation is identical to pressing RCOMMAND-U.

For example,

OPTIONS RESULTS
ADDRESS 'MIRRORMANAGER.1'
UP; pos= result
IF rc = 0 THEN D0 WHILE pos > 0
 'UP'; pos= result
 END
ELSE SAY 'There is currently no item active.'

would be a straight forward implementation of the TOP command.

- DOWN NAME Moves a ListView item one line down. If no name is given then the active item will be moved. This operation is identical to pressing RCOMMAND-D.
- TOP NAME Moves an item to the beginning of the ListView. If no name is given then the active item will be moved. This operation is identical to pressing RCOMMAND-T.
- BOTTOM NAME

Moves an item to the end of the ListView. If no name is given then the active item will be moved. This operation is identical to pressing RCOMMAND-B.

LOAD FILE The LOAD command executes a configuration file. If called without arguments the last configuration will be re-loaded.

SAVE FILE SAVE writes an ARexx executable to disk which, when executed restores the current MirrorManager configuration. If no filename is passed then the '.rexx' file will be written with the current default name.

The SAVE command is identical to selecing Project/Save from the menu. You cannot write back the current configuration via a single keypress. Pressing RCOMMAND-W will pop-up a filerequester asking you for the filename to write to.

CONFIGNAME FILE

The CONFIGNAME command sets the current filename for the configuration script. If called without parameters CONFIGNAME will return the current filename.

The config filename will be set always after loading a configuration via Project/Load or after saving via Project/Save as.... It will also be set if these actions are performed via the ARexx commands LOAD or SAVE respectively.

If MirrorManager has been run by executing a configuration scriptfile then this scriptfile will set CONFIGNAME to its own name. Otherwise, if MirrorManager has been started by double-clicking its icon then CONFIGNAME will be taken from the ToolTypes. When started from the CLI/Shell then the startup CONFIGNAME can be given via

1> MirrorManager CONFIGNAME=rexx/myconfig.mm

Caution: If MirrorManager is executed without specifying CONFIGNAME then CONFIGNAME will be *unset*! This is so because the configuration scripts run MirrorManager without any arguments and of course they don't want MirrorManager to execute another configuration script. In this case Project/Save will behave like Project/Save as... and open a file requester.

APPSTART COMMAND

The APPSTART command sets the default command sequence for running Mirror-Manager. If no arguments are given then the current default will be returned.

APPSTART can be set via a ToolType called APPSTART=<command sequence>. The default is 'Run MirrorManager'.

MESSAGE CLEAR/S, OPEN/S, CLOSE/S, STRING

The MESSAGE command prints the given string in the MirrorManager working window appending a new line to the current window contents. Calling MESSAGE without parameters is a no-op.

MESSAGE CLEAR

wipes out the contents of the working window

MESSAGE OPEN

opens the working window

MESSAGE CLOSE

closes the working window

Given string will be appended to the window contents even if the working window is closed at the time MirrorManager recieves the MESSAGE command.

COMPLETE PERCENTAGE/N

The COMPLETE command sets the gauge in the MirrorManager working window to the given value which has to be between 0 and 100.

If COMPLETE is called without any parameters it will set the result string to the current gauge level.

Even if the working window is closed at the time MirrorManager recieves the COM-PLETE command, the gauge will be set to the given value.

WORKING STRING

The WORKING command sets the title of the MirrorManager working window to the given string. If it is called without any argument WORKING returns the current window title in the result string.

REQUESTCHOICE TITLE/K, GADGETS/A, BODY/A

The REQUESTCHOICE command is similar to the Commodore 'RequestChoice' program. This gives the possibility to interact with the user. REQUESTCHOICE opens a MUI-Requester which can be configured by

- TITLE Title for the requester window. Defaults to "MirrorManager"
- GADGETS Pointer to a string containing the possible answers. The format looks like "_Save|_Use|_Test|_Cancel". If you precede an entry with a '*', this answer will become the active object. Pressing RETURN will terminate the requester with this response. A underscore '_' character indicates the keyboard shortcut for this response.

BODY The requester's body text

The gadget and body string is parsed by MUI's text engine so it may contain the special characters

- "\n" Start a new line. With this character you can e.g. create multi line buttons.
- 'ESC -' Disable text engine, following chars will be printed without further parsing.
- 'ESC u' Set the soft style to underline.
- 'ESC b' Set the soft style to bold.
- 'ESC i' Set the soft style to italic.
- 'ESC n' Set the soft style back to normal.
- 'ESC <n>' Use pen number n (2..9) as front pen. n must be a valid DrawInfo pen as specified in 'intuition/screens.h'.
- **'ESC c'** Center current (and following) line(s). This sequence is only valid at the beginning of a string or after a newline character.
- **'ESC r'** Right justify current (and following) line(s). This sequence is only valid at the beginning of a string or after a newline character.

- **'ESC 1'** Left justify current (and following) line(s). This sequence is only valid at the beginning of a string or after a newline character.
- 'ESC I[s]' Draw MUI image with specification <s>. See autodocs of image class for image spec definition.
- a quick example:

OPTIONS RESULTS ADDRESS 'MIRRORMANAGER.1'

```
REQUESTCHOICE TITLE "Dolle Sache" "_Yep!" "*Ec*EbMUI*En*Nis magic"
REQUESTFILE DRAWER,FILE/K,TITLE/K,SAVEMODE/S,DRAWERSONLY/S,NOICONS/S
The REQUESTFILE command ...
```

SAVELOG FILE

The SAVELOG command ...

LOCK ON/S, OFF/S

The LOCK command blafasel ...

8.4 How MirrorManager executes ARexx Code

If you double-click one of MirrorManager's ListView items, MirrorManager will examine the Command and Arguments field associated with the selected item.

8.4.1 ARexx inline code

If the contents of the Command field begins with a double quote '"' then MirrorManager expects this to be inline code and executes it like the ARexx starter command 'RX' would. The only difference to 'RX' is that the default host is set to the MirrorManager's ARexx port and the default extension for external ARexx scripts is '.mm'.

8.4.2 ARexx script files

On the other hand, if the contents of the Command field does not begin with a double quote then the contents is expected to be the (path and) filename of an ARexx script. The pathname should be given relative to the path of the MirrorManager MUI application. However, also absolute pathnames are possible.

Caution: You must not quote the contents of the Command field unless it is ment as ARexx inline code! MirrorManager will be able to execute your script file even if the path and/or the filename contains spaces.

Before executing an ARexx script MirrorManager will generate inline code on its own.

Consider the following example:

| Name | Add filenotes to INCOMING |
|-----------|--|
| Command | Ram Disk:MirrorManager/rexx/CleanupIncoming.mm |
| Arguments | |
| | FROM "Ram Disk:incoming" WITH "aminet:INDEX" |

After setting the default host for ARexx to the name of MirrorManager's ARexx port, Mirror-Manager will execute the following inline code in order to invoke 'CleanupIncoming.mm':

"CALL 'Ram Disk:MirrorManager/rexx/CleanupIncoming.mm', 'FROM', 'Ram Disk:incoming', 'WITH', 'aminet:INDEX'"

Double quotes inside the Arguments field are treated as you would expect that for ordinary Shell commands. I.e. A double quote inside a double quoted argument needs a leading asterisk '*'.

For example,

"a *quote* *" inside"

An asterisk however does not need to be prefixed by another asterisk.

Here is an overview how MirrorManager converts the contents of the Arguments field which is shown on the left hand side of the following table:

| abc | 'a','b','c' |
|---------|-------------|
| a "b c" | 'a','b c' |
| a"b | 'a""b' |
| a'b | 'a''b' |
| "a*"b" | 'a""b' |
| "a'b" | 'a''b' |
| "a""b" | 'a','b' |

Consider the source code 'rxcallstr.c' for verbose documentation and further details.

As you can see in the above example, MirrorManager will pass the arguments to the ARexx script in tokenized form. From within the ARexx script one can reach the i-th argument with arg(i). The ARexx variable arg() contains the number of supplied aruments. This is identical to an invocation method of ARexx scripts with RXFB_TOKEN set. And it is much more convenient for the ARexx programmer because he doesn't need to parse an argument string on its own.

8.5 Hints for writing new ARexx script files for MirrorManager

Before writing ARexx scripts for MirrorManager you've got to make up your mind if you want to make it GUI-dependent or if your script file should better be executable from within any environment.

8.5.1 Writing GUI-dependent ARexx scripts

Programming the GUI's ARexx interface will most often be done in order to configure Mirror-Manager to your own digests. If your work should however be useful for a greater variety of MirrorManager users then you should keep in mind the following:

- 1. MirrorManager has no assignments and needs no environment variables. You should therefore never write MirrorManager configuration scripts depending on your environment and your assignments. Instead you should take advantage of the fact that MirrorManager guarantees the current directory for all '.mm' scripts to be the directory MirrorManager resides in. And usually the sub-directory 'rexx/' contains these '.mm' scripts.
- 2. An important part of your configuration script makes up finding a legal host. The following example demonstrates how to do this poperly:

```
/*
   Finding a MirrorManager host
**
*/
portbase = 'MIRRORMANAGER.'
portlist = SHOW('P',,'OA'X)
OPTIONS RESULTS
DO WHILE WORDS(portlist) > 0
  PARSE VAR portlist portname 'OA'X portlist
  IF COMPARE(portname, portbase) = LENGTH(portbase)+1 THEN DO
    ADDRESS(portname); 'NUMENTRIES'
    IF result = 0 THEN portlist= ""
                  ELSE ADDRESS
    END
  END
IF ADDRESS() ~= portname THEN DO
 SAY 'MirrorManager is not running... exiting...'
  EXIT
  END
/* ... */
EXIT
```

3. ARexx filenames containing spaces are currently somewhat difficult to execute. They are no problem for MirrorManager but they seem to be for several other hosts. Even RX needs a double quoted ToolType value for CMD, for example

CMD="my script.rexx"

or a kludge for executing 'my script.rexx' from within the Shell:

RX "call 'my example.rexx'"

4. If your configuration script should be executable from outside the GUI then you *must* set your own name to the application via the CONFIGNAME command. Otherwise CONFIGNAME will either be *unset* and calling SAVE without a parameter would fail, or if CONFIGNAME was set then SAVE would overwrite the old configuration.

In fact it is not easy to determine the own full pathname from within an ARexx script, so here is an example

```
PARSE SOURCE . . s
t= LEFT(s,LASTPOS(':',s))
called= STRIP( LEFT(t,LASTPOS(' ',t)) )
CALL PRAGMA('W', 'N')
DO WHILE ~EXISTS(called) & LASTPOS(' ', called) > 0
  called= LEFT(called,LASTPOS(' ',called)-1)
  END
IF LEFT(cr,1) = 'R' THEN DO
  host= ADDRESS()
  PARSE VAR s (called) s (host) .
  resolved= STRIP(s)
  CALL PRAGMA('W', 'N')
  DO WHILE ~EXISTS(resolved)
    resolved= LEFT(resolved,LASTPOS(' ',resolved)-1)
    END
  END
/* ... */
```

At the bottom of this example, i.e. after the $/* \ldots */$ the variable called contains the filename used for calling this script while resolved contains the expanded path including the root's volume name.

An example procedure whoami can also be found in the 'rexx/' drawer coming with MirrorManager. See Section 7.1 [MirrorManager scripts], page 13, 'whoami.rexx' for more information.

- 5. You should always test the result of a call. All of the GUI's ARexx commands return 0 in the rc variable if they have been successful. A value ~= 0 always indicates an error. See Section 8.2 [MUI Error codes], page 18, for details on error codes.
- 6. Strings passed to the GUI always have to be quoted twice if they contain any white space. Additionally, double quotes '"' and asterisks '*' in a string passed to the GUI have to be

escaped with an asterisk '*' to '*"' and '**' respectively. For this reason it is often useful to implement a function that quotes a string for you.

```
For example,
    /* translate '"' into '*"' and '*' into '**' */
    transquote: PROCEDURE
    PARSE ARG s
    t= s
    q= MAX( LASTPOS('*',s), LASTPOS('"',s) )
    DO WHILE q > 0
        t= INSERT('*',t,q-1,1)
        s= LEFT(s,q-1)
        q= MAX( LASTPOS('*',s), LASTPOS('"',s) )
        END
        RETURN '"' || t || '"'
```

double quotes the given argument string and translates each occurence of a double quote '"' into '*"' and each occurence of '*' into '**'. Here is an example for the usage of transquote with the ADD command:

```
ADDRESS 'MIRRORMANAGER.1'
ADD transquote('Say hello') transquote('"SAY ''Hello world!''")
```

8.5.2 Writing GUI Independent ARexx Scripts for MirrorManager

The '.rexx' script files supplied with MirrorManager are all GUI independent, i.e. they never address to the MirrorManager's GUI host. This guarantees functionality from within any environment.

The following is recommended to this kind of MirrorManager scripts:

1. The template for command line arguments sould be available in a ReadArgs() style. At most any user will expect this kind of argument passing meanwhile. The following example demonstrates a convenient argument parsing for a template REQUIRED/K/A,OPTIONAL/K,SWITCH/S

```
/*
** parse command line arguments
*/
required = ""
optional = ""
switches = ""
IF ( ARG() < 1 ) | ( (ARG() = 1) & ARG(1)= '?' ) then do
OPTIONS PROMPT "REQUIRED/A,OPTIONAL,BOOL=SWITCH/S: "
PARSE PULL ARGS
END</pre>
```

```
ELSE PARSE ARG args
DO WHILE WORDS(args) > 0
  av= next_arg()
  SELECT
    WHEN UPPER(av) = "REQUIRED" then do
      IF WORDS(args) > 0 THEN required= next_arg()
      ELSE DO
        SAY "missing argument value after REQUIRED keyword"
        EXIT usage()+5
        END
      END
    WHEN UPPER(av) = "OPTIONAL" THEN DO
      IF WORDS(args) > 0 THEN optional= next_arg()
      ELSE DO
       SAY "missing arument value after OPTIONAL keyword"
       EXIT usage()+5
       END
      END
    WHEN (UPPER(av) = "BOOL") | (upper(av) = "SWITCH") then do
      switches = switches || 's'
      END
    OTHERWISE DO
      IF av ~= '?' THEN SAY "Unknown keyword" av
      EXIT usage()+5
      END
  END /* select */
END /* do */
IF WORDS(required) < 1 then do
  SAY "required argument missing"
  EXIT usage()+5
 END
/* ... */
IF LASTPOS('s', switches) > 0 THEN DO
   /* what this switch stands for */
   END
/* ... */
next_arg: PROCEDURE EXPOSE args
  args= STRIP(args)
  IF LEFT(args,1) = '"' THEN PARSE VAR args '"' a '"' args
                        ELSE PARSE VAR args a args
  RETURN STRIP(a,'b','"');
```

9 Disclaimer

9.1 Warranty? No warranty.

There is no warranty for this software package. Although the authors have tried to prevent errors, they cannot guarantee that the software package described in this document is 100% reliable. You are therefore using this material at your own risk. The authors cannot be made responsible for any damage which is caused by using this software package.

10 License

10.1 Copyright

MirrorManager is (c)Copyright 1994 by Tobias Ferber and Harald Kunze

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MirrorManager is ShareWare.

THIS IS A BETA VERSION !!!

Thanks to all beta testers, especially to Rene Petri, Mark Rose and Tobias Walter.

10.1.1 Support ShareWare!

Please feel free to fill out the registration form! It can be found in your 'MirrorManager/docs' drawer.

10.2 Distribution

This software package is freely distributable under the concept of ShareWare. It may be put on any media which is used for the distribution of free software, like Public Domain disk collections, CDROMs, FTP servers or bulletin board systems.

In order to ensure the integrity of this software package, distributors should use the original archive file. The authors cannot be made responsible if this software package has become unusable due to modifications of the archive contents or of the archive file itself.

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No program, document, data file or source code from this software package, neither in whole nor in part, may be used on any machine which is used

- for the research, development, construction, testing or production of weapons or other military applications. This also includes any machine which is used in the education for any of the above mentioned purposes.
- by people who accept, support or use violence against other people, e.g. citizens from foreign countries.

11 MUI - MagicUserInterface

MirrorManager uses

MUI - MagicUserInterface © Copyright 1993 by Stefan Stuntz

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

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

If you want to register directly, feel free to send DM 20.- or US\$ 15.- to

Stefan Stuntz Eduard-Spranger-Straße 7 80935 München GERMANY

12 Installer

Along with MirrorManager comes the 'Installer' from Commodore:

Installer and Installer project icon (c) Copyright 1991-93 Commodore-Amiga, Inc. All Rights Reserved. Reproduced and distributed under license from Commodore.

INSTALLER SOFTWARE IS PROVIDED "AS-IS" AND SUBJECT TO CHANGE; NO WARRANTIES ARE MADE. ALL USE IS AT YOUR OWN RISK. NO LIABILITY OR RESPONSIBILITY IS ASSUMED.

Installer project icon redesigned by Martin Huttenloher. See Chapter 13 [MagicWB], page 34, for details.

13 MagicWB

All icons coming with MirrorManager are designed, redesigned or inspired by Martin Huttenloher's MagicWB.

MagicWB has been designed and published by Martin Huttenloher under the concepts of SHAREWARE and is Copyright © 1993 by Martin Huttenloher, All rights reserved.

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