

M-REPEAT Program Group

Version 4.01

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M-REPEAT version 4.x PROGRAM GROUP MANUAL

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I. OVERALL DESCRIPTION

BACKGROUND

The M-REPEAT Version 4.x program group is a group of programs to automate and manage virus scanning using *McAfee Associates'* VIRUSCAN program (SCAN.EXE) Version 2.xx. M-REPEAT can be used on both stand-alone as well as networked personal computers.

The M-REPEAT program will run the SCAN.EXE program to scan for viruses if a specified time/date interval has been exceeded. M-REPEAT is NOT a TSR. It is a shell for the SCAN program.

MxREPEAT.EXE is the shareware version of the main program. M-REPEAT.EXE is the registered version of the main program. They are identical EXCEPT the error screens and keyboard actions can only be customized in the M-REPEAT version. In this manual, MxREPEAT and M-REPEAT are used interchangeably except when discussing custom error screens and keyboard actions.

Additional programs provided include:

MERROR.EXE (M-REPEAT only) used to generate custom error screens.

M-CHKOUT.EXE used to checkout the operation of M-REPEAT.

M-CHK.EXE used to quickly check if a virus scan is needed.

The M-REPEAT Version 4.x program group will not work with Version 1.x of ViruScan. If the use of Version 1.x of ViruScan is needed, a download of M-Repeat Version 3.xx (MXREP3xx) is required.

II. Licensing and Registration

The MxREPEAT and support programs consisting of M-CHKOUT.EXE, M-CHK.EXE and the documentation files may be used free of charge by anyone on their own personally owned computer. The computer must not be used for any commercial and/or business purpose. These programs may be used for evaluation during a single 60 day evaluation period on any computer and/or computer system used for commercial and/or business purposes.

For continued use in a government, commercial and/or business system, this software must be registered. Registration provides additional features for customizing displays and keyboard actions. These features are not available with the unregistered version.

See Section **IX. ORDERING INFORMATION** for more details on registering this software.

III. The M-REPEAT and MxREPEAT Programs

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M-REPEAT is a program that executes the virus scanning program SCAN.EXE based on a time or date interval passed as a command line parameter. The date and time of the last successful scan is encrypted and stored in a Log File.

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When M-REPEAT is run, a command line interval parameter determines how often M-REPEAT calls the SCAN program to check for viruses. If the command line interval is greater than the difference between the present time/date and the last time/date the personal computer was successfully scanned, the M-REPEAT program will exit without running SCAN. A zero errorlevel will be returned by M-REPEAT.

If the time/date difference is greater than the command line parameter, M-REPEAT runs the SCAN program. When the SCAN program completes scanning, it returns an errorlevel to the M-REPEAT program. If the errorlevel returned is zero (successful completion of SCAN with no viruses detected), the M-REPEAT program updates the time/date in the Log File then exits with an errorlevel of zero. If the errorlevel returned by SCAN is not zero, M-REPEAT displays an appropriate error screen and sets a predetermined keyboard condition. When M-REPEAT exits, it returns the same errorlevel as returned by SCAN.

Only the error screens and keyboard actions for M-REPEAT can be customized. This customized information is contained in the M-REPEAT.SCR file. This file must be in the same directory as M-REPEAT.

The MxREPEAT program does not have an option for custom error screens.

M-REPEAT inhibits the <Control><Break> and <Control><C> key combinations while the SCAN program is running. This prevents the user from aborting the program.

Some default error screens and keyboard actions for both M-REPEAT and MxREPEAT are listed in APPENDIX I.

IV. M-REPEAT Command Line Parameters

The command line for M-REPEAT is:

M-REPEAT AAA BBB /C-DDDD EEE EEE EEE

where:

AAA is the full path to the SCAN program. The path does not have to specify the SCAN program itself.

EXAMPLE: **M-REPEAT C:\VIRUS** where SCAN is in the C:\VIRUS\ directory.

NOTE: If the SCAN.EXE program and related files are located in the same directory as M-REPEAT, only **SCAN** has to be specified for AAA.

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EXAMPLE: **M-REPEAT SCAN** where SCAN.EXE is in the same directory as M-REPEAT.

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BBB is optional. If included, it is the path or path and file name of the Log File. If the path but not the Log File name is given, a Log File named SCAN.!LG will be used in the path specified. If the path and Log File are both not included in the command line, M-REPEAT will access or create a new Log File in the current directory named SCAN.!LG.

EXAMPLE: **M-REPEAT C:\VIRUS C:\SCAN.!LG** where C:\SCAN.!LG is the log file.

EXAMPLE: **M-REPEAT C:\VIRUS C:\NEW** where C:\NEW\SCAN.!LG is the log file IF directory C:\NEW exists. If directory C:\NEW does not exist, C:\NEW is the log file.

C is the time/date parameter **T** or **D**. **T** is used to specify a time interval and **D** is used to specify a date interval.

DDD is the time or date interval parameter. SCAN will be called only when the time or date interval parameter has been exceeded.

If the **T** time/date parameter is specified, the minimum time between the scans is given in hours and minutes (minutes are optional).

EXAMPLE: **/T-12:32** means that at least 12 hours and 32 minutes must pass before SCAN is called again.

If the **D** time/date parameter is used, the interval is specified in days:

EXAMPLE: **/D-2** means at least 2 calendar days must pass before SCAN is called again.

NOTE: **/D-1** and **/T-24** are not the same. **/D-1** will execute SCAN the first time M-REPEAT is executed on a new calendar day. However, **/T-24** will execute SCAN only after a minimum 24 hour interval has elapsed.

Specifying a time or date interval of 0 will result in SCAN being called each and every time M-REPEAT is run.

When using the **/T** parameter, the SCAN program will be called

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automatically if the workstation's time/date is earlier than the time/date in the log file. This aids in preventing the user bypassing the scanning by changing the PC clock. When using the /D parameter, only the workstation date is compared to the log file date.

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EEE represents the command line parameters to be passed to the SCAN virus scanning program.

Each parameter passed to the SCAN program must be separated by a space on the command line. See the SCAN program documentation for aid in choosing the desired SCAN parameters.

NOTE: DOS limits the maximum command line length that can be parsed. Use of environmental variables on the command line can increase the maximum effective command line length.

EXAMPLES:

M-REPEAT C:\SCANNING /D-0 /ADL

SCAN.EXE is in the C:\SCANNING directory.
The log file is SCAN.!LG in the current directory.
The SCAN.EXE program will be executed each time the M-REPEAT program is run. All local drives will be scanned.

M-REPEAT C:\SCANNER C:\ /D-1 E: /REPORT C:\SCAN.RPT

SCAN.EXE is in the C:\SCANNER directory.
The log file name is C:\SCAN.!LG.
SCAN will scan the first time M-REPEAT is run on a new calendar day. E: drive will be scanned and a report written to the file C:\SCAN.RPT.

M-REPEAT SCAN F:\SCAN.LOG /T-5:2 D:

SCAN will be executed from the current directory.
The Log File name is F:\SCAN.LOG.
SCAN will scan the first time M-REPEAT is run after 5 hours and 2 minutes have elapsed since the successful scan.

M-REPEAT SCAN F:\SCAN.LOG /T-5:2 %ABC%

Same as above except the environmental variable ABC contains the parameters to be passed to SCAN.

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M-REPEAT or **M-REPEAT ?**

Either of these commands or a command line error will display the M-REPEAT help screens.

V. Generating Custom Error Screens with MERROR.EXE

(M-REPEAT ONLY OPTION)

Custom error screens and keyboard actions are contained in the M-REPEAT.SCR file. This file must be in the same directory as the M-REPEAT.EXE program.

The MERROR.EXE program is used to create, modify and delete custom error screens and keyboard actions in the M-REPEAT.SCR file. Next, run M-REPEAT with the desired command line.

Using MERROR, an error screen can be created for each errorlevel returned by the SCAN program. An additional error screen can be created for all other non-zero errorlevels.

In addition to displaying error screens, the following keyboard conditions can be programmed for any errorlevel:

1. Pause until a key is pressed,
2. Lock the keyboard (requires a reboot to unlock) or
3. Normal keyboard condition (no pauses or lock-ups).

An audible alarm can also be programmed for any non-zero errorlevel.

Use of MERROR is straight forward. Context sensitive help is available by pressing the <F1> key.

VI. SYSTEM CHECKOUT USING THE M-CHKOUT PROGRAM

A special program, M-CHKOUT.EXE, is supplied to checkout the operation of M-REPEAT. During checkout, M-CHKOUT.EXE is automatically executed instead of SCAN.EXE. When this occurs, a special screen is displayed requesting the user to input an errorlevel (0 to 255) which will be returned to M-REPEAT. By inputting all possible values for errorlevels returned by SCAN, the actions of M-REPEAT can be verified.

To use M-CHKOUT.EXE, first copy it to the same directory as the M-REPEAT program. Next, run M-REPEAT with the command line desired. If a Log File name is not specified on the M-REPEAT command line, the log file name will be M-CHKOUT.!LG.

After checkout has been completed, remove M-CHKOUT.EXE from the directory containing M-REPEAT. Also, if no Log File was specified, delete the M-CHKOUT.!LG file.

VII. Quick TIME/DATE Interval Checking using M-CHK

The M-CHK.EXE program can be used in Menu scripts to "quickly" check if a virus scan is needed. The M-CHK program contains only minimal error checking. The command line form for M-CHK is:

M-CHK AAA /B-CCC

where:

AAA is the path and filename of the Log File.

EXAMPLE: **M-CHK C:\SCAN\SCAN.!LG**

The log file name is C:\SCAN\SCAN.!LG

B is the date/time parameter **T** or **D**. **T** designates a time interval and **D** designates a date interval.

CCC is the time or date interval.

EXAMPLE: **M-CHK C:\SCAN\SCAN.!LG /T-02:03**

The log file name is C:\SCAN\SCAN.!LG.

The time interval is 2 hours and 3 minutes.

EXAMPLE: **M-CHK C:\SCAN\SCAN.!LG /D-3**

The log file name is C:\SCAN\SCAN.!LG.

The date interval is 3 days.

If the entered date or time interval has not been exceeded since the last successful virus scan, M-CHK will return an errorlevel of zero. If the interval has been exceeded, an errorlevel of one will be returned. If the Log File does not exist or there is an error level in the command line, an errorlevel of one will be returned.

When M-CHK exits, short status messages are displayed. To prevent these messages from being displayed the output can be redirected to the DOS NUL device.

EXAMPLE: **M-CHK C:\SCAN.!LG /D-1 >NUL**

VIII. Networking Suggestions

Suggestion 1: Require each workstation to be scanned for viruses every 4 days before normal network activities are permitted.

Solution: Place SCAN and the M-REPEAT programs in a network directory. Give normal users only Read and Find rights in the directory. When logging into the network, have the workstation execute M-REPEAT using a command line like:

```
F:\VRSCAN\M-REPEAT F:\VRSCAN\SCAN C:\SCAN.!LG /D-4 /ADL /REPORT C:\SCAN.RPT
```

This command line will use the C:\SCAN.!LG Log File and cause SCAN to scan all the workstation hard disks every 4 days. In this example, the SCAN programs and the M-REPEAT.EXE and M-REPEAT.SCR files are in the F:\VRSCAN directory. A scan report will be written to the C:\SCAN.RPT file. The keyboard options can be programmed using MERROR to lock the keyboard for any non-zero errorlevel. This will effectively keep any non-scanned workstations from logging onto the network.

On a Novell network, the M-REPEAT.EXE file can also be given the <Execute Only> attribute. This helps prevent any changes to the program by a user with supervisor rights.

If this M-REPEAT command line is executed on all file servers, logging into a new file server will not require re-scanning. The same Log File on the workstation hard disk is used when logging into any of the file servers.

Suggestion 2: On some networks, users are not forced to periodically logout. To ensure periodic scanning of workstations, incorporate the M-CHK.EXE program into the network menuing scripts. Example:

```
M-CHK C:\SCAN.!LG /d-4 >NUL  
IF ERRORLEVEL 1 GOTO SCAN  
GOTO CONTINUE  
:SCAN  
F:\VRSCAN\M-REPEAT F:\VRSCAN\SCAN C:\SCAN.!LG /D-4 /ADL /REPORT C:\SCAN.RPT  
:CONTINUE
```

A non-zero errorlevel will be returned if more than 4 days have elapsed since the last successful virus scan. This will cause M-REPEAT to call SCAN as explained in Suggestion 1.

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Suggestion 3: If the command line becomes too long for DOS to parse, use environmental variables to increase the effective line length that can be parsed.

ADDITIONAL CONSIDERATIONS:

Important: The REPORT option (/REPORT) of VirusScan is a very valuable tool when used in conjunction with M-REPEAT. When the virus scan is executed and a VIRUS is found, the workstation is locked out of the LAN. The keyboard is locked and the computer must be rebooted to regain control. After rebooting, while not on the Network, Maintenance or LAN Management can then look at the REPORT file to determine what VIRUS was found and what action should be taken. It is beneficial to have the REPORT file on a local hard disk drive.

A Possible Problem: Option /ADL on early SCAN Versions of 2.x does not function on some workstations. VirusScan aborts, returns an errorlevel of 512 and does not write a REPORT file, if specified. This is **not** caused by M-REPEAT. However, SCAN Version 2.11E, dated 9/27/94, fixed this problem.

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IX. Ordering Information

No registration of MxREPEAT is required for personal use. After a 60 day evaluation period, registration is required for all commercial, government, or business use.

Upon registration of MxREPEAT, the USER will receive:

- (1) M-REPEAT - A customized version of MxREPEAT which permits user customized error code screens and keyboard conditions to be programmed for different SCAN conditions.
- (2) MERROR - A program to customize the error code screens and keyboard conditions.
- (3) M-CHKOUT - A program that can be used to temporarily checkout and test the actions of M-REPEAT as configured by the user.
- (4) M-CHK - A program that can be used in LAN Menus to "quickly" check if the Log File encrypted Time/Date has expired.
- (5) M-REPEAT.SCR - A collection of suggested error code screens for the user's reference.
- (6) Documentation in both WordPerfect 5.1 for DOS and an ASCII text file format as well as a printout of the WordPerfect file.

IN ADDITION, the next major program upgrade will be provided free. Details on additional upgrades will be provided to registered users.

PRICING INFORMATION

\$50 per each 250 user or less LAN File Server with no restrictions on the number of concurrent program users on the LAN.

\$90 for each LAN file servers with more than 250 concurrent users.

\$1 per Personal Computer in other installations with a minimum of \$50.

\$225 for an unlimited site-license of the M-REPEAT program group.

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\$350 for an unlimited site-license of the F-REPEAT, M-REPEAT, T-REPEAT and REPEATIT program groups. These programs are for use with the copyrighted programs F-PROT by Frisk International, VIRUSCAN by McAfee Associates, TbScan by ThunderByte B.V. and for generic programs, respectively. This includes use on both LANs and stand-alone computers at a single physical site.

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To register, please fill out the information requested below:

From: Name: _____

(Title): _____

Company: _____

Address: _____

City, State, Zip Code: _____

Country: _____

Phone Number: __ (____) _____

Licensed to: _____
(suggested license display when running program.)

Today's Date: _____

M-REPEAT for use on a 250 user or less File Server \$50. _____

M-REPEAT for use on a greater than 250 user File Server \$90. _____

M-REPEAT for use on a personal computer (\$1 per Personal
Computer with a minimum of \$50.) _____

M-REPEAT unlimited site-license \$225 _____

Unlimited site-license package of the F-REPEAT,
M-REPEAT, T-REPEAT, and REPEATIT program groups \$350 _____

Indiana residents add 5% sales tax _____

Outside of Country (USA), add \$50 for shipping _____

TOTAL ENCLOSED: _____

Diskette format (choose one):

5.25" 1.2 meg disk ____

3.5" 720K disk ____

3.5" 1.44 meg disk ____

Payment Terms: Check or Money Order.

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Mail to: ANTALION Software
6618 Maryland Avenue
Hammond, IN 46323-1823

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X. Warranty

Antalion warrants that the physical diskettes and documentation enclosed to be free of defects in materials and workmanship for a period of sixty days from date of purchase. In event of a defect in material or workmanship during the warranty period, Antalion will replace the defective diskette(s) or documentation.

Antalion will not be liable for any special, incidental, consequential, indirect or similar damages, even if Antalion has been advised of the possibly of such damages. In no event will Antalion's liability for any damages ever exceed the price paid for the license to use software, regardless of the form of the claim.

Antalion will assist in problems that might arise from the use of M-Repeat.

For customer support, contact ANTALION on Compuserve (address [74720,224]) or write to:

ANTALION Software
6618 Maryland Avenue
Hammond, Indiana 46323-1823

NOTE: The Viruscan program also referred to in this document as SCAN and SCAN.EXE are copyrighted programs by McAfee Associates.

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APPENDIX I. M-REPEAT DEFAULT SCREENS

The following are the default screens for common M-REPEAT errors and conditions (the MxREPEAT screens are same except replace all occurrences of M-REPEAT with MxREPEAT).

A. ERROR: Incorrect directory for SCAN.EXE program. Errorlevel 202 is returned.

DISPLAY MESSAGE

■■■■■ ERROR ■■■■■■ ERROR ■■■■■■ ERROR ■■■■■■ ERROR ■■■■■■
ERROR ■■■■■■

The directory \VIRUS could not be found.
Please check the command line parameters.
Please contact your PC or LAN Manager.

Press any key to continue.

B. ERROR: Incorrect drive letter for SCAN.EXE or Log File location. Errorlevel 202 is returned.

DISPLAY MESSAGE

■■■■■ ERROR ■■■■■■ ERROR ■■■■■■ ERROR ■■■■■■ ERROR ■■■■■■
ERROR ■■■■■■

There is no P: drive. Please check the command line parameters.
Please contact your PC or LAN Manager.

Press any key to continue.

C. ERROR: Date or Time interval too large (overflow). Errorlevel 203 is returned.

DISPLAY MESSAGE

The M-REPEAT program has aborted!

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The M-REPEAT program was incorrectly called with the following command line:

M-REPEAT C:\VIRUS C:\ /D-9999999999 C:\DOS /AD

The Date\Time Integer is too large a number.....

To clear this display, press <Esc>.
Press any other key to display the M-REPEAT Help Screens.

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D. ERROR: The M-REPEAT.SCR file is not in the same directory as M-REPEAT (This message is for M-REPEAT only).

DISPLAY MESSAGE

■■■■■■ ERROR ■■■■■■ ERROR ■■■■■■ ERROR ■■■■■■ ERROR ■■■■■■
ERROR ■■■■■■

File M-REPEAT.SCR is missing. Check the M-REPEAT program instructions.
Notify your PC or Network Manager

Press any key to continue with DEFAULT error screens.

E. Date interval not exceeded. Errorlevel 0 is returned.

DISPLAY MESSAGE

Date parameter not exceeded. SCAN virus scanning program was not run.

F. Time interval not exceeded. Errorlevel 0 is returned.

DISPLAY MESSAGE

Time parameter not exceeded. SCAN virus scanning program was not run.

G. If a virus is found when using the MxREPEAT program, a message is displayed and the keyboard locked. When using the M-REPEAT program, the keyboard condition and display message can be customized using the MERROR program.

H. Help and error screens are displayed if there are no M-REPEAT or MxREPEAT command line arguments or the command line arguments are incorrect.

I. Due to changes and enhancements in the future, it is possible that additional error levels not now programmed will be added to the SCAN program. If M-REPEAT detects a new errorlevel, the numeric value will be displayed along with a special warning message.

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With M-REPEAT, the MERROR program can be used to program an error display for the new errorlevel. With MxREPEAT, a new copy of the program must be obtained. Check Compuserve and your favorite Bulletin Boards for the latest version.

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APPENDIX II. M-REPEAT ERRORLEVELS

The following errorlevels are returned by M-REPEAT.EXE:

***** Zero to Eighteen - VirusScan Errorlevels *****

- 0 Successful completion of M-REPEAT and SCAN (if run).
- 1 A File Access error occurred.
- 2 VirusScan database (*.DAT) file is corrupted.
- 3 A Disk Access error occurred.
- 4 File created with /AF option caused an error.
- 5 There was Insufficient Memory.
- 6 An internal program error occurred.
- 7 The use of an international message file caused an error.
- 8 A file required to run VirusScan was missing.
- 9 Invalid option(s) or argument(s) entered for an option.
- 10 A Virus was found in memory.
- 11 An internal program error occurred.
- 12 An error occurred while attempting to remove a virus.
- 13 A virus was found in Master Boot Record, boot sector, or file(s).
- 14 The SCAN.DAT file was out-of-date.
- 15 VirusScan Self-checking failed.
- 16 Accessing a specified drive or file caused an error.
- 17 No drive, directory, or file was specified for scanning.
- 18 A validated file has been modified. (/CF or /CV options)
- 19 to 99 Errorlevels reserved for VirusScan.
- 100 An error within the operating system. M-REPEAT returns 100.
- 200 All other errors causing termination of M-REPEAT.
- 201 The Log File could not be opened after running the SCAN program.

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- 202 The path to the SCAN program is not valid.
- 203 The Date or Time parameter is not valid.
- 204 The branch to the SCAN program was not successful.

Errorlevels 19 thru 99 are reserved for VirusScan. They will be displayed as an Undefined Error Screen, unless another error screen is created for an errorlevel in that range.

Errorlevel 100 is the errorlevel M-REPEAT returns when VirusScan detects an error within the Operating System. On the error screen for M-REPEAT and MXREPEAT, the Operating System errorlevel will be displayed.

The M-REPEAT program normally returns the same errorlevel as it receives from the SCAN program. Exceptions are errorlevels 200 through 204 listed above. These are used to signify problems experienced by the M-REPEAT program.

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APPENDIX III. M-CHK DISPLAY SCREENS

The following are the display screens for M-CHK conditions.

A. Time or Date interval exceeded.

DISPLAY MESSAGE

```
■■■■ MESSAGE ■■■■ MESSAGE ■■■■ MESSAGE ■■■■ MESSAGE ■■■■  
MESSAGE ■■■■  
      M-CHK Date\Time Parameter Exceeded.  
      Scanning needed.
```

B. Log File does not exist or could not be found.

DISPLAY MESSAGE

```
■■■■ MESSAGE ■■■■ MESSAGE ■■■■ MESSAGE ■■■■ MESSAGE ■■■■  
MESSAGE ■■■■  
      M-CHK Log File not found.  
      Scanning needed.
```

C. Date or Time interval not exceeded.

DISPLAY MESSAGE

```
■■■■ MESSAGE ■■■■ MESSAGE ■■■■ MESSAGE ■■■■ MESSAGE ■■■■  
MESSAGE ■■■■  
      M-REPEAT program Date\Parameter not exceeded.  
      No Scanning Needed.
```