Aguard for Windows

The Aguard for Windows is one of the programs of the ALWIL Software company designed for testing the consistency of contents of all available disks.

The program acts like a basic element of protection of your system in case of virus attack. If you use this program properly and regularly, you will most likely be successful in trying to rescue most of the files infected.

Basic information

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- Version 7.70
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Program installation

Program is installed as the part of the program package AVAST! It is impossible to install Aguard as an individual program since the whole software package is supplied on distribution diskettes in a packed format.

The installation itself takes place in two separate steps. The first stage of the installation procedure install that part on AVAST! software package which runs under DOS environment. Then the user is prompted if the installation of the part of software that runs under Windows is desired. If the answer is affirmative the
files necessary to operate the system in the Windows environment are unpacked to a hard disk as well.

The installation of the programs within Windows environment is accomplished by activating installation program SETUP.EXE, which is the standard part of the delivery and which is made ready by running the standard installation of AVAST! for DOS.

During this part of the installation procedure the program Aguard for Windows will be placed within Windows into a program group AVAST! created automatically by the installation software.

How does it work?

Purpose of the program

The Aguard for Windows is designed to follow the changes in the contents of individual files on disks, accessible in a given moment. The program is following up all modifications of the parameters typical for a given file, and is apt of catching up any change of it.

Operational procedure

On being started, the program will read in the configuration to find out if there is any specification of the areas to be tested. If so, the program will begin to test the first of the areas found, quite spontaneously. If not, the program will expect an assignments for testing by means of a slightly modified files opening dialogue. The way of launching the corresponding dialogue can be found in the chapter Program control.

The Aguard for Windows will read in the file with the data already stored for each area to be tested. The work itself rests in reading through each file within the area tested, and in comparing the currently obtained data with the data that had been stored during the course of the program running. If the data are identical, it is hundred per cent obvious that the file remained unchanged.

If any of the parameters had been changed, the program will list it out into main window along with the specification of the modification type. The files that have been modified can be further processed by software tools, that will be further detailed in the chapter Program control.

After the testing of some area is finished, the data for selected (or all) files can be proclaimed as correct ones and stored into the data file. The data on the file, not yet selected, will remain unchanged.

The user can choose several areas for testing simultaneously, while the number of them is limited only by the Windows system resources.

Influence on the system

Program works in idles of the system and its design eliminates any influence on other programs' performance. Just minor decrease in speed is influenced by disk speed in accessing the files.

Program parameters

The Aguard program for Windows in its version 7.00 does not recognize any parameters specified in the command line. All parameters, which can be found there, are ignored without any warning.

All parameters required by the program to be saved over the period between two runs of the program will be stored in the configuration file. The Aguard program for Windows is, however, making use of only a part of parameters, written in this configuration file. The data in the [AGUARD] and [AGW-Param] groups are concerned here.

Description of individual groups

- [AGUARD] group
- [AGW-Param] group

[AGUARD] group

The AGUARD group contains basic parameters for the work of the program, which however do not specify its configuration. Mainly the parameters necessary for communication between the two instances of the program.

The following parameters can be found in the [AGUARD] group:

Temp
The variable TEMP is used in communication between individual instances of the AGUARD program. Its value changes from one run of the AGUARD program to the other. During the course of the program it is however important that this value would not be modified by any other program (like editor), because otherwise some important data might get lost.

[AGW-Param] group

The [AGW-Param] group contains parameters vital for maintaining the configuration of the program between its two consecutive runs. We do not recommend individual parameters to be manually modified because their combination might be confused, and hence the data lost as well.

The following parameters can be found in the [AGW-Param] group:

Extension 1 - Extension 10
These parameters are used for keeping the types of the files to be tested. They preserve the text strings of 1 to 3 characters in the same format which is also used for this purpose in DOS. To keep the compatibility with the AGUARD version for DOS we can afford keeping only ten types of files. Should you need to test more types, the characters for simultaneous specification of more types ('*' or '?') according to DOS naming conventions.

TestingAreas
The 'TestingAreas' parameter is used for saving of the areas for testing,that you want to be automatically submitted to regular testing. These areas will be tested at the start of each run of the program. The value of the parameter is represented by the character string.

AutomaticStart
The AutomaticStart paramater contains either of the logical values 1 or 0, specifying if the program is to automatically test the areas for testing, which have been enumerated in the 'TestingAreas' parameter, without prompting the user. If this parameter is 0, the user is prompted to specify the areas to be tested. If 1 and if the 'TestingAreas' parameter contains a valid area to be tested, the program will commence its testing operation automatically.

FastCheck
The 'CheckTest' parameter contains either of the logical values, 1 or 0, detailing if the program is to test also the contents of individual files. If 0, the contents of the files will be tested. If 1, these contents will be omitted and the program will only very briefly review the deleted files or modifications of attributes. The program will allow for saving the modified data into the file even if the testing of individual files had been omitted.

IgnoreArchive
The 'IgnoreArchive' parameter contains either of the logical values, 1 or 0, specifying if the program should consider the modification of the archive bit of the file. If it is 0, a modification of this archive bit will be considered as the modification of this file. If the parameter is 1, a variation of this archive bit will not be evaluated at all. If there are in a file more parameters that have been modified, and not only the value of the archive bit, its modification will be displayed.

NoSubdirs
The 'NoSubdirs' parameter contains either of the logical values, 1 or 0, specifying if the program should process also the files in subdirectories of the chosen area for testing. If 1, no files in subdirectories will be processed, if 0, then the processing will cover the files in subdirectories as well.

ReportMode
The 'ReportMode' parameter contains either of the logical values, 1 or 0, specifying if the program should be able to write the modified data into the data file. If 0, the program will

run in a normal mode. If 1, the program will operate in a so called REPORT mode, in which it is not capable to do any modification in any existing data file.

Program control

Controlling the program Lguard for Windows does not represent any potential difficulties since it is very similar to the standard manner of control of all other applications written for Windows environment. The program can be controlled by either mouse or keyboard. The procedures and control elements of the program correspond to the Windows standards.

Operation of activities of individual program sections:

- Menu
- Toolbar
- Status bar
- Dialogues
- Mouse buttons
- Work window

Menu

The menu of the Aguard for Windows comprises all functions of the program. It can be controlled from the keyboard as well as by a mouse without any problems.

All disabled items of the menu are displayed in grey. The accessibility of individual items is given by a current state of the program.

Top level menu contains the following items:

- File - opens a choice of the areas to be tested,file processing, and program exiting.
- Function - grants access to specific functions of the program.
- View - enables turning the individual bars off and on.
- Help - access to the help information.

File menu

The File menu contains the following items:

Select areas
The item of 'Select areas' will evoke a dialogue within which an area for testing can be selected. See the specialized chapter for a detailed description. The direct selection of the item is done through the hot key '**Ctrl-O**'.

Save
The item of 'Save' is used for saving the data that have been modified and/or selected into the data file AGUARD.DAT. Here it is important to keep in mind that only selected item will be stored into the data file. The direct selection of the item is done through the hot key '**Ctrl-S**'.

Delete file
The item of 'Delete file' is used for deleting of the chosen files from hard disks. It is important to remember that in most cases such an erasing of files is undoable. Their restoration might necessitate the personal interference of an operating system specialist. The direct selection of the item is done through the hot key '**Del**'.

Setup
The item of 'Setup' is used to open a dialogue, within which individual parameters of the program can be set. The setting of parameters is then saved into the configuration file AVAST!.INI.

Exit
The 'Exit' item serves for program termination. The direct selection of the item is done through the hot key '**Alt-F4**'.

Function menu

The Function menu contains the following items:

Select all

The 'Select all' item of the menu is used for selection of all files,displayed in the moment of selection of this function in the main section of the program window. Even the items are selected that are not currently visible, but accessible only by means of the scrollbars. The selected items will be displayed in inverse colours. Particular files can be selected by means of the right button of the mouse.

Unselect all

The 'Unselect all' item of the menu is to cancel the outcomes of previous selections, i.e. the items that, in the moment of this function being activated, have been selected in whatever way. Such selections can be cancelled by means of the right button on the mouse.

Virus test

The 'Virus test' item of the menu is used to start the testing of chosen files for viruses. Only the existing files are tested, not yet submitted to any tests. The outcome of the test will be displayed both in a visible form, and in the form of information on the file, accessible through depressing the right button on the mouse. The indicated files are displayed in red.

Create Report

The 'Create Report' item of the menu is used to make up so called Report files, containing information on current state of data for the current area for testing. The files are to be created in the directory, from where the Aguard for Windows has been started. For more details on Report files, see a respective chapter.

View menu

The View Menu contains the item, turning the individual program bars on and off. If an item is marked, a respective item will be displayed. The program comprises both bars, status bar and toolbar.

Help menu

The Help menu contains the following items:

Index
The item 'Index' of the menu will allow for loading the contents of the Help File. The direct selection of the item is done through the hot key '**F1**'.

About
The item 'About' of the menu will allow for displaying the dialogue with brief information on the program.

Toolbar

The toolbar will permit prompt access to the choice of the program functions. Individual button, visually displayed on the toolbar are visualizing the functions they represent. Their function is identical as the function of individual items of the menu. There are buttons without any direct equivalent of the menu items that are only to simplify the operation of the program by means of the mouse.

The individual buttons of toolbar have the following meaning:

- Areas
- Save
- Create report

- Select all
- Unselect all
- Cancel

- Delete file
- Virus test

- Setup
- About
- Context Help

ESC key

The ESC key is used to interrupt a longer activity of the program, the one the user is impatient to wait for. The user can break up testing of a particular area, searching for the deleted files, or waiting for save operation into data file.

To interrupt an activity, either the ESC key or a respective button of the toolbar  can be directly applied.

Context help

The Context help will mediate prompt access to information on the Aguard program for Windows. The mouse will certainly simplify selection of the program section you would like to be informed about. It is enough to click on the respective button of the toolbar  , and then on the selected section of the program. If there is any help information on this section, it will be displayed straight away.

Status bar

The status bar of the program is used for displaying the status information on the program and the area tested. The whole length of the status bar is split down into two parts. The left one will display information about the items picked out by a mouse or about the buttons of the toolbar.

There are 4 indicators in the right part the status bar:

- Indicator 1: The number of files infected by a virus.
- Indicator 2: The number of chosen files.
- Indicator 3: The number of processed files.
- Indicator 4: The number of all files.

Dialogues

The dialogues of the Aguard for Windows represent separate windows, displaying a choice of an information or requesting for it. Their destination might be various, what suggests even the appearance of them.

The following types of dialogues are displayed by the program:

- Area selection dialogue
- Setup dialogue
- About dialogue
- File changes dialogue
- Dialogues of report, warning or error
- Query dialogue

Area selection dialogue

This dialogue for selection of the areas for testing is one of the main elements of the Aguard for Windows.

It is actually a modified version of the standard dialogue used to open the files. But opposite to this standard dialogue, the list of the files in the selected directory has been left out and two new editing windows added that will display the selected areas to be tested, apart from the two additional buttons used for manipulations with the contents of these editing windows.

Description of individual features

Disks
Currently accessible local and remote disks will be displayed in the list. From these disks the areas for testing can be picked.

Directories
Currently accessible directories that can be picked for testing will be displayed in the list. The currently chosen directory will be displayed just above the list.

Actually selected areas
The editing window 'Actually selected areas' contains a list of areas about to be tested after depressing the **OK** button. An area (directory) can be added to this list by means of the Add button or directly, by typing in the text.

INI file areas
The editing window 'INI file areas' contains a list of areas about to be automatically tested on each start of the program in the event that you have already set the respective switch in the setup dialogue. The editing window can be directly edited or processed with the buttons set apart for this
purpose.

OK button
The 'OK' button advises the program that the areas to be tested have already been specified and that the program can tackle the work. In the case of empty window 'Actually selected areas'. the currently chosen directory will be polled and the name of it displayed just above the list of currently accessible directories.

Add button
The 'Add' button is used to add a selected directory to the editing window 'Actually selected areas'. On extending the editing window it will be checked, whether the area to be added has already been described by any previous areas or not. If so, the new area will not be added, and the user notified about that.

Cancel button
The button 'Cancel' will erase the window and all modifications within the editing windows will not be used.

Help button
The button 'Help' will activate the help information on the Aguard program for Windows. On operating it, the respective page will be displayed.

INI->Actual button
The button 'INI->Actual' will trigger the operation to copy the contents of the window 'INI file areas' to the window 'Actually selected areas'.

Actual->INI button
The button 'Actual->INI' will trigger the operation to copy the contents of the window 'Actually selected areas' to the window 'INI file areas'.

Setup dialogue

The dialogue 'Setup' is used to setting of the program parameters, capable to modify its operation. The set parameters are saved into the configuration file AVAST!.INI.

Description of individual features

File extensions
The Aguard program for Windows will allow for testing of up to ten different extensions. If you wished to test more than ten file, you can make use of special characters (wildchars), like e.g. '*', what means that the program is required to test all files. The type of the file can have a maximum of 3 characters in length. But anyway, the program will prompt the user about his attempt to type in more characters.

Selected areas
The editing window 'Selected areas' includes a list of directories about to be automatically tested on the start of the program in the case that the 'Start with INI file data' switch has already been marked. The contents of the editing window will be displayed within the dialogue for selection of the areas to be tested in the editing window 'INI file areas'. The editing window can be either edited directly or the individual areas can be determined though the dialogue to select the areas for testing.

Start with INI file data
The switch specifies if the areas stored in the configuration file AVAST!.INI are to be automatically tested on every start of the Aguard program for Windows or if the program is to wait for manual specification of the areas for testing.

Do not test subdirectories
The switch specifies, if also the subdirectories of all selected directories are to be tested by the Aguard for Windows. In the event that you want to verify the complete disk, this switch has to be left marked, and the ROOT directory for the tested area selected.

Do not test files content
The switch specifies if the program is to search for modification of the contents of the files. On testing the individual files the modification of time, date, length, and attributes are tested for changes each time. The contents of files can but need not be monitored. If it is not monitored, the program will run much faster but comprehensive information missing. At the same time, if you do not require the contents of the file to be tested, you will lose the opportunity to restore the initial content of the file.

Ignore Archive Bit
The switch specifies if the program is to account for modifications of this archive bit in the attributes of the file. Should the switch be marked, the modification of this archive bit is ignored. If more of the file parameters had been changed. the modification of this archive bit will be listed out along with other updates.

Report
The switch specifies if the program is to log the results of its work into the data file. If the switch is marked, the program will not be competent to update the data file, and the outcomes can be viewed solely on the screen.

OK button

The button will confirm the correctness of the parameters that had been set and their applicability for the next work of the program. The window of the dialogue will disappear from the screen and the parameters saved into the configuration file.

Select button
This button will evoke the dialogue for selection of the areas and once picked, the chosen areas are placed into the editing window.

Cancel button
This button will disapprove the parameter that have been set as incorrect for the program, and ban their further use. The window of the dialogue will disappear from the screen, but without recording the changes of parameters.

Help button
The button will evoke the help file concerning the Aguard for Windows and display this page.

About dialogue

The About dialogue is used to display very brief information on the version of the program and on copyrights referring to this program.

File changes dialogue

The File changes dialogue is to display the description of the file modifications that have been displayed in the work window. The dialogue will display an easy-to-view table with the changes over a time. In the case that a file has been deleted or created, the respective column will remain empty.

Dialogue of the report, warning, or error

The dialogue for the report, warning, or error is to display the appropriate information in a brief form. There is a text in the heading of the window, determining the program and the type of the report to be displayed. And what is more, the text of such a report will be displayed in various colours, further high-lighting urgency of the message.

A normal report is typed out in a standard black, the warning is in blue, the error in violet, and the fatal error in bright red.

The dialogue like this suggests just a single option of a reply, i.e 'OK'. This way the user will communicate his having read the information and his awareness of it.

The program is suspended whilst the dialogue is being displayed. All other programs of the Windows system are not inflicted in any of ways. A dialogue of this kind is used by all programs of the AVAST! system.

Query dialogue

The Query dialogue is to display a quest and a reply by the user. A text will be displayed in the heading of the window detailing the program and the type of report having been displayed, therefore a quest in this particular case. Moreover, the text of the message is displayed in different colours notifying the user of the urgency of such a message.

A normal report is typed out in a standard black, the warning is blue, the error in violet, ant the fatal error in bright red.

Such a dialogue suggests only two alternatives of answer. The button '**YES** expresses the affirmative reply, the button '**NO**' negative one.

The program is suspended whilst the dialogue is being displayed. All other programs of the Windows system are not influenced in any of ways. A dialogue of this kind is used by all programs of the AVAST! system.

Mouse buttons

Within the Aguard for Windows the mouse is applied the same way as in most other Windows operated programs. To simplify the operation of the program, some procedures have been implemented further accelerating or simplifying the work.

Left button

The left button has its specific meaning only in the work window. Within this square area a single click to the position of the keyboard cursor on an item, identified by the cursor of the mouse can be applied. The double click with the left button will mark the item as active or will erase this mark either.

Middle button

The middle button is not a part of all type of mouses, and its simulation has not been subdued to any standard. This why this button has not been implemented in the Aguard for Windows as well.

Right button

The right button is operated when the file changes dialogue. The dialogue will be displayed immediately after having clicked on this button.

Work window

The work window is an area in which modified files will be displayed. There can be more of these files than the window is capable to accommodate at a time. In this case a scrollbar will be displayed at the right margin of the window, for scrolling through the list of files. Each item displayed consists of several parts. There is the name of the file to the left along with the full path. The status of the file is indicated to the right, i.e. the account about how the file has been updated since the last start-up.

The work window can be operated by mouse or keyboard either. The description of the mouse operation can be browsed through in the respective chapter. If you prefer the operation by mouse, you are free to do so. To meet this requirement, the cursor of the keyboard has been implemented which is displayed as the '»' character, immediately next to the names of files. The cursor can be moved around by standard keys.

Report files

A report file can be created by a button. The Aguard program for Windows generates the two files named AGW-[disk name].ALL and AGW-[disk name].DIF, similarly as its version for DOS. The files will be created in the directory, from where the program Aguard for Windows has been started.
Each time the format of the files is the same, and will not likely be changed in the future, either, so that the output can be processed by another program.

While the report files are being generated, the operation of the Aguard program for Windows has to be suspended along with the operation of all other programs - because of the design of Aguard for Windows.

Version 7.70

The program Aguard for Windows in its version 7.70 contains only minor changes against version 7.5.

Version 7.50

The program Aguard for Windows in its version 7.50 contains only minor changes against version 7.0.

Version 7.00

The program Aguard for Windows in its version 7.00 is the first implementation for the Windows system. Since the version 7.00 on it has been the part of the AVAST! system, with which it is also sharing the allocation of version numbers.

Origin of the program

The program Aguard for Windows derives its origin from the Aguard for DOS which has been the part of the AVAST! system since the Version 1.00. During its processing it makes use of the same internal algorithms of detecting the modifications of files, and thus the results that can be seen during the work with the program itself or with its working files are the same like those produced by the Aguard for DOS.

The program has nearly the same features as its DOS oriented counterpart except of several modifications.

1. The program operates solely under the Windows system.
2. The program includes interactive setting of the areas tested.
3. The program does not include any restoring of updated files.

Removal of viruses

According to many explorations, there are millions of computer users around the whole world who have already faced themselves with viruses, and so, unfortunately the likelihood is rather high that it can happen even to you, in spite of all preventive measures.

In this very moment, it is vital not to surrender to a panic, and to keep calm. Since you are certainly a user with a dislike for risks, you have surely backed up all important data and programs, so neither a complete destruction of your disk would mean any serious shock to you. Furthermore, you seem to be attentive and careful user, and so you have already disclosed the virus pretty timely, or, let us say, earlier than such a virus could have caused any significant damages. A virus can be revealed e.g. from unusual behaviour of the system (graphic or audio effects, unusual error messages, unknown activity of the disk, errors of programs having faultlessly operated until now, etc.), or through regular and careful application of the AVAST! anti-virus system.

Therefore, if you find any particularities that cannot be explained in any reasonable way (spontaneous changes in length and contents of a file, illegal manipulation with file, peculiar disk operations, changes in the main memory, etc.), the Lguard and Vguard programs have to be applied with the goal to find out the possible presence of a known virus within the system, the one these programs can cope with. The Lguard program ought to cope with prevailing majority of existing viruses. If any of these programs fail to find a virus, then try the Aguard program capable of catching all modifications on the disk since its last start-up. The program Aguard incorporates in itself even the capability of polling the updated file for viruses, and of removing them from the files. On removing them, no information about the type of the virus is required, and therefore it is very effective even against the new or the so far unknown viruses.

On removing the consequences of such an intrusion, insert a working floppy to the diskette unit of the computer, the one which has been created simultaneously with the AVAST! system installation, and which ought to be write protected. Then start the Lguard program, e.g.:

A:
LGUARD C:

The Lguard program is, at first, searching through the main memory for the presence of an active virus. If a virus is found, it has to be eliminated from the memory and prevented from any further functioning. After the virus has been removed from the memory, there is no threat of its additional activity. The program will further check a system section of the disk, and thereafter the files as well. Eventually the program will generate and display an easy-to-view table with the outcomes of its activities.

Before removal of virus of an unknown type, the system has to be loaded from a **clean**system diskette (if possible from the one that had been created during the installation of the AVAST! software). Through the Aguard program, all files having been illegally modified by a virus can be easily detected. The list of them can be printed out by the Print Screen command, or savedto the disk by means of the "**/O**" parameter.

The programs of the AVAST! anti-virus file contain an intrinsic mechanism, allowing to find out their potential modification by a virus. On being started they are primarily testing if they themselves have not be modified, and if so, they will announce this fact to the user, like for

example:

VGUARD.EXE
WARNING: This program was modified (maybe by some virus ??) !!

Press any key to continue...

This message serves as a notification that the program was modified. Its main significance rests in the timely warning of a user. Upon depressing any key, the program will continue its normal activity, but it is however likely that the virus has already been activated in this moment.

On contracting the system areas of the hard disks in the case of MS DOS from the version 5.0 on, the FDISK system program with the parameter "**/MBR**", can be used because it will regenerate the state of system areas without impact on data that might be stored on the disk. But to do this, the computer has to be necessarily started up from the clean system disk, as otherwise the cure would be ineffective.

For protection of the BOOT sector, the program Bguard can be preferably used, by which the state of the BOOT sectors on the hard disks can be renewed.

We wish you to be widely avoided by computer viruses. But if they really do occur, then let our software help you overcome all problems associated with them.

If not absolutely sure how to cope, entrust the removal of viruses to professionals!!

System requirements

Aguard for Windows requires for its operation:

1. Microsoft Windows 3.xx, Microsoft Windows for Workgroups 3.xx.
2. A computer system with the 80386sx processor or better.
3. A correct installation of the AWANTI.386 library for testing the files.

List of messages, warnings, errors, and queries

The program Aguard for Windows is capable of displaying several warnings and error messages of various types in a range of different forms. Find below the list of them along with the details of their various alternative forms.

- Repeated test of an area.
- Selected drive is CD-ROM.
-
- Configuration file not saved.
- Selected directory too large.
- Disk read error.
- Testing exception.
- Delete marked files?
-
- Not enough memory.
- Not enough memory.
- File access error.
- Database incompatibility error.
- Database contents error.
- File open error.
- File search error.
- Memory access error.
- Internal database error.
- Error writing updated data to disk.
- Required file cannot be deleted.
- File access error.
- Anti-virus test error.
- REPORT file create error.
-
- Change in the content of the system area.
- Save changes to disk?
- Cancel the retrieved data?
- End the application during the operation?
- End the application during the operation without saving data?

Repeated test of an area. Area 'ANYAREA' is already selected for testing and is not necessary to add it. Repeated testing of the same data will only overload processor but is of no use. No item added.

On selecting the additional area to be tested the program Aguard for Windows has found out that this area has already been assigned for testing. The data set in this way lack every sense and no new area was not assigned.

Selected drive is CD-ROM. Program can not write to CD-ROM disk. Request canceled.

The Aguard for Windows must keep the data file in the ROOT directory of the disk tested. Since the CD-ROM disk cannot be recorded, the Aguard for Windows will refuse to work with this disk.

Configuration file not saved. The program has detected an error while saving the parameters to the disk. The changes are neither saved nor accepted.

The program, when attempting to save the configuration file to the disk, has detected an error. The error was not caused by the program, but by the operating system or the error on disk. But anyway, the modified data have not been saved to disk.

Selected directory too large. The memory block maintaining the list of the areas is not limitless. The selected directory exceeds the given block. Request cancelled.

The scope of operation of the Aguard program are rather limited as far as keeping the working data in memory. Although these possibilities are not limited by the 16-bit structure of the Windows system (memory segmentation), the area selected for testing stretches out beyond the limit of the program.

Disk read error. The program cannot read the system area of drive X. System area not tested.

The Aguard for Windows could not read the system area of a disk. This problem has most likely been caused by different software, having banned the access to these areas.

Testing exception. Disk X is STACKER-operated. Its system area is continuously modified. System area not tested.

While working, the STACKER program is continuously writing its own internal data into the BOOT sector of the disk served. The Aguard for Windows will obviously detect these changes and will announce a modification. As they are legal changes and moreover done continuously, the program is looking for the STACKER on the disk tested. In case of its presence the BOOT sector will not be tested.

Delete marked files? If answered with YES, all files will be undoable deleted from the hard disk. Do you really want to delete them?

The program Aguard for Windows will allow the marked files to be deleted. Such a deletion is often an undoable operation, and this is why the Aguard for Windows is generating this message.

Not enough memory. Program has not enough memory, probably in local heap. Request cancelled.

The Aguard for Windows is limited by the Windows system and the size of local memory is too small. The user required operation exceeds the capacity of the system.

Not enough memory. The program lacks enough space in the global heap. End some program and try again.

The Aguard for Windows makes use of the main memory of the Windows system for its memory consuming operations. Due to its lack the operation cannot be executed.

File access error. The program has detected an error while processing a file. The area has not been tested completely!

For a reason the program Aguard for Windows cannot read the part of the file tested. This error has been caused by the Windows system or by a disk error.

Database incompatibility error. The program cannot cope with database structure because of the incompatibility of the version. Delete the AGUARD.DAT and try again.

The Aguard for Windows is storing the number of version of the program which has created the file. The structure of the fire undergo some changes over time, and the program can resolve whether such a file is compatible with the program or not.

Database contents error. The program cannot process the information because of their unauthorized modification. Restore the file AGUARD.DAT from the back-up copy and try again.

The Aguard for Windows is writing to the data file the information, serving for verification of its consistency later on. If the content of this file is changed by any other program, the Aguard for Windows cannot use it.

File open error. Program can not open file ANYFILE. File will not be tested.

Program Aguard for Windows cannot open a file for testing. The file exists, but some other program prevents the verification of it, because it has opened it for itself, or otherwise prevents its opening.

File search error. An unspecified error was detected. The program cannot continue in testing this area.

The program Aguard for Windows has detected an error in searching for the file. This error was caused by the Windows system, or a hard disk error either.

Memory access error. The program cannot access previously allocated memory. Request cancelled.

The program Aguard for Windows cannot access the memory previously allocated. This memory ought to be accessible, but for some unknown reason, is not. This error has arisen in the Aguard programs for Windows or in the kernel of the Window system.

Internal database error. This error arose on internal processing of modifications that should have been saved to disk. If encountered more frequently, call the ALWIL Software and claim for a remedy.

On saving to the disk, the format is to be modified so that it would be compatible with the Aguard for DOS. Each time such a format modification should be done without any problems. If not, contact the ALWIL company straight away and consult the problem with a responsible staff member.

Error writing updated data to disk. During the course of data saving, an error had occurred, and the data could not be stored. The original file has remained unchanged.

The Aguard for Windows detected an error during its attempt to save the file to the disk. The error arose in the Windows system or on the hard disk. The most frequent cause is the insufficient empty space on the target disk.

Required file cannot be deleted. Your requirement cannot be satisfied for a memory access error.

The program Aguard for Windows, in its trying to meet your requirement to delete files, has detected an error in accessing database. This error has its origin in the Aguard for Windows.

File access error. Your requirement to delete the files cannot be satisfied for an error in accessing the 'ANYFILE' file.

The program Aguard for Windows failed to delete a chosen file. This error owes for its origin to the Windows system or to the hard disk. The most likely cause is, that some other program has already deleted the file, or some other program is denying the access to this file.

Anti-virus test error. File ANYFILE will not be tested for presence of viruses because of the insufficient memory or due to the file access error.

The program Aguard for Windows cannot test this selected file for presence of viruses. That the file could be tested, it would have been loaded into memory in its full length. But if such a memory is not available or if the file is inaccessible, the test cannot be done.

REPORT file create error. The program has detected an error in its processing file ANYFILE. The report files are not complete.

The Aguard program for Windows has detected an error when it was trying to create REPORT file. This error has its cause in the Windows operating system or on the disk. Most likely it was for insufficient disk space.

Change in the content of the system area. System area on disk X: had changed. Is such a change OK?

The display of this question was caused by a change in contents of the system area of the disk tested. Its having been changed, if lacking every legal explanation, almost every time equals having been contracted by a virus, or the other but equally fatal defect in computer operation.

Save changes to disk? Acknowledging this command, the marked items will be saved as the correct ones. If your reply is NO, the program will ask you about deleting the data created.

The program Aguard for Windows will save to the data file only the changes that the user has marked.

Cancel retrieved data? If your answer is YES, the data in memory will be cleared. If you answer NO, the program will return to the processing of the list of modified files.

The retrieving of the data about the area tested is the procedure that might take some longer time. The program Aguard for Windows will warn you from unwanted erasure of the results obtained.

End the application during the operation? The requirement to terminate the program in the middle of its operation is at least unusual. If you feel bothered by the window of the program, minimize it.

The program termination during the course of its operation is really rather unusual requirement.

End the application during the operation without saving data? Your requirement is unusual. But if you really want the program to be ended without saving the data, press the button YES.

The termination of a program in the middle of its run is really a rather unusual requirement.

The **area tested** is a part of the hard disk which can be tested by a single run of the operation cycle of the program Aguard for Windows. The area tested can cover the entire disk, a directory, or a directory along with its subdirectories.

The **AGUARD.DAT**is the file into which the programs Aguard for Windows and Aguard for DOS are storing the data about states of the individual files. This file resides in the ROOT directory of the local disk, or in the AGUARD directory, in the case that a network disk is being tested.

The **AVAST!.INI** is the configuration file, used by programs of the AVAST! system for saving the program parameters that must be maintained over an idle period of any of the programs. The standard configuration file of the Windows system is in question here. It resides in the directory from where programs are started.

The **wildchars** are the characters allowing to specify more files by a single name within the DOS system. For their application details see the Operating system manual.

The **archive bit** is a attribute specifying to the operating system if the file has been updated since the last backup. As many programs are handling this attribute quite freely, it might be sometimes suitable to ignore its having been updated. For more detailed description of all file attributes see the Operating system manual.

The **item** is the term specifying the least unit of data the program is able to cope with. The program will display a single item in a single row of the main section of the working window.

The **scroll bar** is the standard element of the Windows system user interface allowing for virtualisation of the working area. The way of displaying the working area within the window that can be far less in size than required.

The **standard dialogue** is a dialogue set up by the Microsoft Company with the goal to unify some basic procedures and actions within the Windows system. They are for example file open and file save operations, font and colour selection, etc.
Standard dialogues can be modified and used also for some other activities, and not only for those recommended by the Microsoft company.

The **editing window** is a standard element of the Window system user interface implementing a single-line or a multiple-line editor with standard features like block operations, or insert mode or overwrite mode. Within the system Windows 3.xx the maximum size of the editing block is confined to 32 KB of text, which can be further restrained by program responses.

The **button** is a standard element of the Windows system user interface implementing the facility to select the activity according to the program specification.

The **ROOT** directory is the main directory on each disk.

The **switch** is a standard element of the Windows system user interface implementing the facility to select one of the two or three alternatives specified by the program.

The **keyboard cursor** is the sign pointing out where the next data entry from keyboard will be directed. The Windows system allows for manipulation with several different, mutually independent cursors, while the keyboard cursor can be implemented in various forms as required and according to the states of individual programs.
The keyboard cursor can be separate and exclusively used by only a particular program, but at a time only one of them can be active.

The **mouse cursor** is the sign pointing out where the next click on a mouse button will be directed. Within the Windows system it is usually a familiar arrow-shaped mark sliding around the screen without any dependence on a window. The shape of the cursor and irs relationship to a particular window can be each time different according to circumstances. There can be only one mouse cursor at a time, within the Windows system.

The **ALWIL Software** company and its software products are no beginners in the market. The company itself was established no sooner than in April 1992, actually by separation from the ALWIL Cooperative, but its staff members have been working closely together since 1988 when the first version of the AVAST! anti-virus package came to being together with User Software Administrator SUP. In the same year the implementation of the national environment not only for IBM compatible PCs and their widely used peripheral units was created, but for the laser printers as well.

We still remain faithful to our original trend in the fields of system software, data protection, and implementation of the national environment for laser printers. The last novelties of our production are, for example, the systems for real-time encrypting of the hard disk contents, or the Lguard for Windows.

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The **instance** of program is one running copy of program.