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1 1. General program information

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1.1 1.1. Documentation contents

This documentation contains information necessary for installation and operation of *ElcomSoft Distributed Password Recovery*. The procedures of installation, reinstallation, uninstallation and the concepts of the program and their application method are described. Configuration recommendations are also included.

1.2 1.2. Purpose and basic functions

ElcomSoft Distributed Password Recovery is a unique network-based password recovery software for extremely fast and effective restoration of a wide spectrum of documents.

It allows to:

- *restore passwords of different documents by means of distributed processing;*
- *work in local and global networks;*
- *administer the password recovery server remotely;*
- *install and uninstall agents to remote computers;*
- *manipulate agents' work time and priority;*
- *launch the agents and the server as system services;*
- *keep count of machine time;*
- *keep track of one's own actions and look through the log if necessary;*
- *using NVIDIA GeForce 8 cards for hardware acceleration.**

* Using the "brute force" technique of recovering passwords, it was possible, though time-consuming, to recover passwords from popular applications. For example, let's assume that logon passwords for Windows Vista is composed of uppercase and lowercase alphabetic characters, and up to eight characters long. There are about 55 trillion (52 to the eighth power) possible passwords in this range. Windows Vista uses NTLM hashing by default, so using a modern dual-core PC you could test up to 10,000,000 passwords per second, and perform a complete analysis in about two months. With ElcomSoft's new technology, the process would take only three to five days, depending upon the CPU and GPU.

Until recently, graphic cards' GPUs couldn't be used for applications such as password recovery. Older graphics chips could only perform floating-point calculations, and most cryptography algorithms require fixed-point mathematics. Today's chips can process fixed-point calculations. And with as much as 1.5 Gb of onboard video memory and up to 128 processing units, these powerful GPU chips are much more effective than Intel and AMD CPUs in performing many of these calculations.

In February, 2007 NVIDIA, the manufacturers of the GeForce® family of video cards, created a developer's kit that allowed software developers to gain access to the computing power of their GPUs. These GPUs act as multiprocessors, with multiple registers and shared memory and cache. ElcomSoft has harnessed their computing power, and will be incorporating this patent-pending technology into their entire family of enterprise password recovery applications. Since high-end PC mother boards can work with four separate video cards, the future is bright for even faster password recovery applications.

1.3 1.3. Supported document formats

The program supports the following applications and file formats:

- Microsoft Word/Excel/PowerPoint 2007 (.DOCX, .XLSX, .PPTX) (password recovery - "open" password only)
- Microsoft Word/Excel/PowerPoint XP/2003 (.DOC, .XLS) (password recovery - "open" password only)
- Microsoft Word/Excel 97/2000 (.DOC, .XLS) (password recovery - "open" password only)
- Microsoft Word/Excel 97/2000 (.DOC, .XLS) (guaranteed decryption)
- Microsoft Money (.MNY, .MBF) (password recovery)
- Microsoft OneNote (.ONE) (password recovery)

- PGP zip archives, version 5-9, (.PGP) (password recovery)
- PGP secret key rings, version 5-9, (.SKR) (passphrase recovery)
- PGP disks with conventional encryption, version 5-9, (.PGD) (password recovery)
- PGP self-decrypting archives, version 5-9, (.EXE) (password recovery)
- PGP Whole Disk Encryption, version 9 (.WDE) (password recovery)
- GnuPG secret key rings (SECRING.GPG) (password recovery)

- Personal Information Exchange certificates - PKCS #12 (.PFX, .P12) (password recovery)

- Adobe Acrobat PDF with 128-bit encryption, all version ("user" and "owner" password recovery)
- Adobe Acrobat PDF with 40-bit encryption, all version ("user" and "owner" password recovery)
- Adobe Acrobat PDF with 40-bit encryption, all version (guaranteed decryption)

- Windows Logon LM/NTLM passwords
- Windows Logon NTLM passwords using NVIDIA GeForce 8 cards for hardware acceleration
NOTE: To enable GPU usage rename PWDUMP file to *.pwdump.

- Intuit Quicken (.QDF) (password recovery)

- Lotus Notes, all version, including 8 (beta), (.ID, ADMINDATA.XML) (password recovery)

- MD5 Hashed Password (.MD5) (password recovery)

- SYSKEY Files (SAM, SYSTEM) (password recovery)

- Domain Cached Credentials (SECURITY) (password recovery)

- WPA-PSK Export Hashes (*.WPH) (password recovery)

- Crypt Password Hashes (*.crypt) (password recovery)

- Oracle Password Hashes (*.orc) (password recovery)

= Windows Logon LM/NTLM passwords

*.pwdump

username.id:lmhash:ntlmhash::: (as generated by PWDUMP)

lmnt.lst

(as generated by Cain&Abel)

= MD5 hashed passwords

*.md5
username:hash

= Domain Cached Credentials

*.dcc
username:hash:domain:iterations:comments (as generated by PSPP)

*.cachedump
username:hash:domain:

SECURITY and SYSTEM (binary Registry files)

= WPA-PSK hashes

*.wph
hash:ssid:iterations:[password]: (as generated by PSPP)

= UNIX/Crypt password hashes

*.crypt
username:hash[any number of additional fields separated by ':']

= Oracle password hashes

*.orc
username:hash[any number of additional fields separated by ':']

Support of other document formats is planned for the next versions of the program.

1.4 1.4. System architecture

ElcomSoft Distributed Password Recovery is a program complex that consists of 3 main modules: *the agent*, *the server* and *the console*, that can operate independently on different computers in the local or global Internet networks (Fig 1.4).

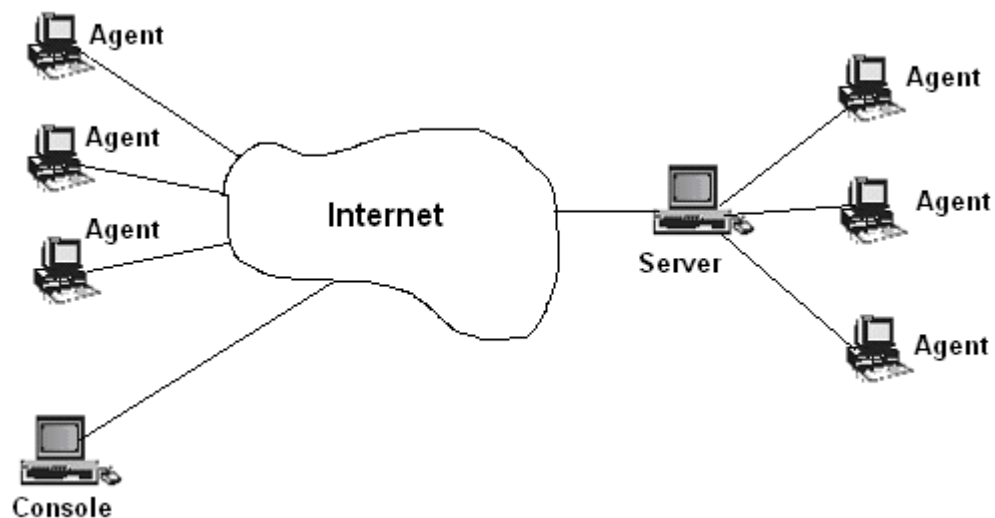


Figure 1.4 System architecture.

The agent is used for its computer machine time allocation to the *server*, the latter using it to recover lost or forgotten passwords. The agent connects to its assigned server, delivers the work done (if it has had any), receives the next portion of work, disconnects and starts processing the given task. Periodically, on an average of 60 seconds plus some random amount of seconds, but not more than 60, each agent connects to the server in order to report its state.

The server receives its task from *the console* and distributes it among *the agents*.

The console in its turn is designed to manage *the server* it is connected to and *the agents* that are registered on the server. The agents are registered on the server when they connect to it for the first time.

1.5 1.5. General work algorithm

The server is started up on one of the computers in the network. On any of the computers in the network the console that manages the server is then started up and connected to the already active server. Password recovery task is created on the console. Then the previously installed and started up agents connect to their server, deliver the work done (if they have had any) and receive the next portion of work, after which they disconnect and start processing the given task. Periodically, on an average of 60 seconds plus some random amount of seconds, but not more than 60, each agent connects to the server in order to report its state.

1.6 1.6. Unregistered version restrictions

An unregistered version of the program can't distribute the task among more than 10 agents and show recovered passwords longer than 4 characters.

2 2. Quick setup, launch and beginning of operation

If you want to quickly start using the program, perform the following:

- launch the setup program (edpr_setup.exe);
- either press «Enter» to answer all the questions concerning the program installation or click the left mouse button on the corresponding default options in the dialogues;
- if necessary, install the agents onto additional computers in the network by following the instructions for quick launch and beginning of operation contained in the agent's documentation;
- the launched program window will appear; select the *New task* option on its toolbar;
- in the window that appears, choose the document you want to recover;
- specify the parameters of password recovery;
- press the *Start* button on the toolbar;
- wait for the results of password recovery;
- register the program if necessary.

3 3. Program installation and uninstallation

[3.1. System requirements.](#)

[3.2. First installation.](#)

[3.3. Reinstallation.](#)

[3.4. Uninstallation.](#)

3.1 3.1. System requirements

The following hard- and software is necessary for normal operation of the program:

- 100% IBM compatible PC, Pentium processor (or higher);
- NVIDIA GeForce 8 or higher (option)
- 256 Mb RAM;
- 20 Mb free hard disk space;
- one of the following operation systems:

Windows 2000 Professional
Windows 2000 Server
Windows 2000 Advanced Server
Windows 2000 Datacenter Server

Windows XP Professional Edition
Windows XP Home Edition
Windows XP Media Center Edition

Windows 2003

Windows Vista Home Basic
Windows Vista Home Premium
Windows Vista Ultimate
Windows Vista Business
Windows Vista Enterprise

(compatibility with subsequent versions is possible, but not guaranteed)

3.2 3.2. First installation

To install *ElcomSoft Distributed Password Recovery* on your computer follow the instructions:

- launch the "edpr_setup.exe" program;
- choose the preferable interface language and press "OK" (Fig. 3.2.1);



Figure 3.2.1 Installer language selection dialog.

- follow the setup program instructions (Fig. 3.2.2);



Figure 3.2.2 Start Setup Wizard dialog box.

- click "Next" to continue or "Cancel" to quit setup (Fig. 3.2.3);

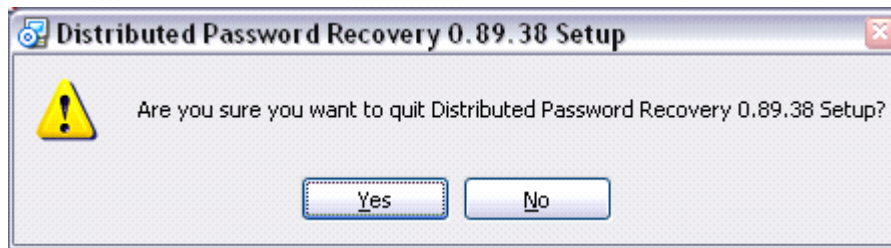


Figure 3.2.3 Dialog box to confirm the setup quitting.

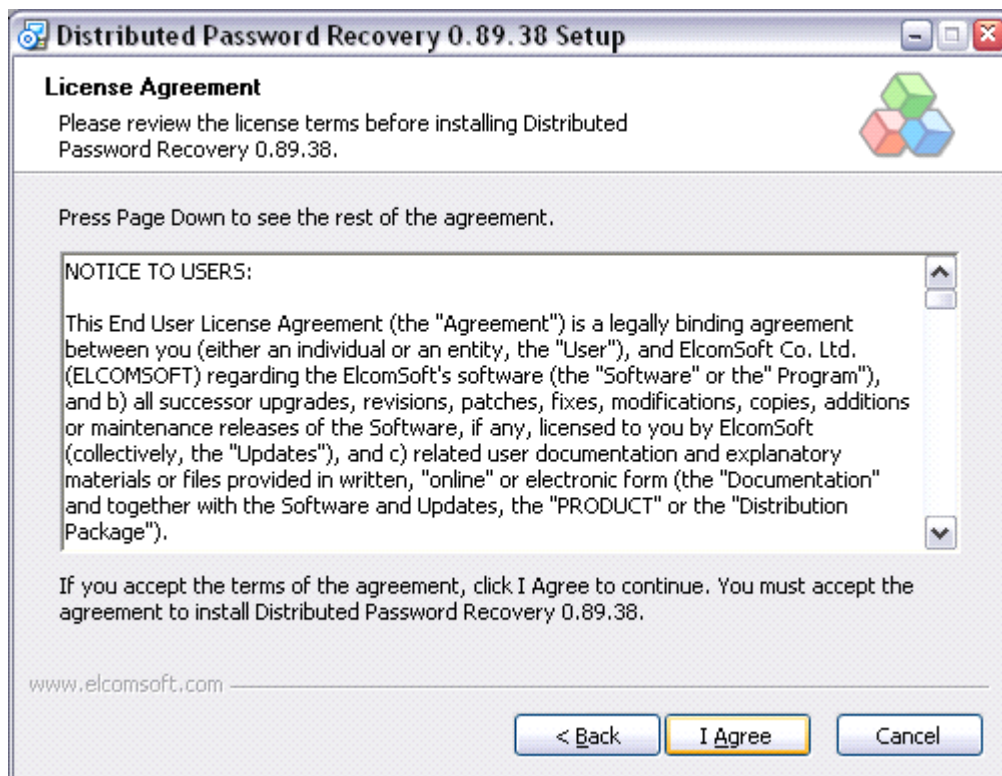


Figure 3.2.4 License Agreement dialog box.

- click "I Agree" if you accept the license agreement terms; click "Cancel" to terminate the setup process; or "Back" to return to the previous window of the setup program (Fig. 3.2.4);

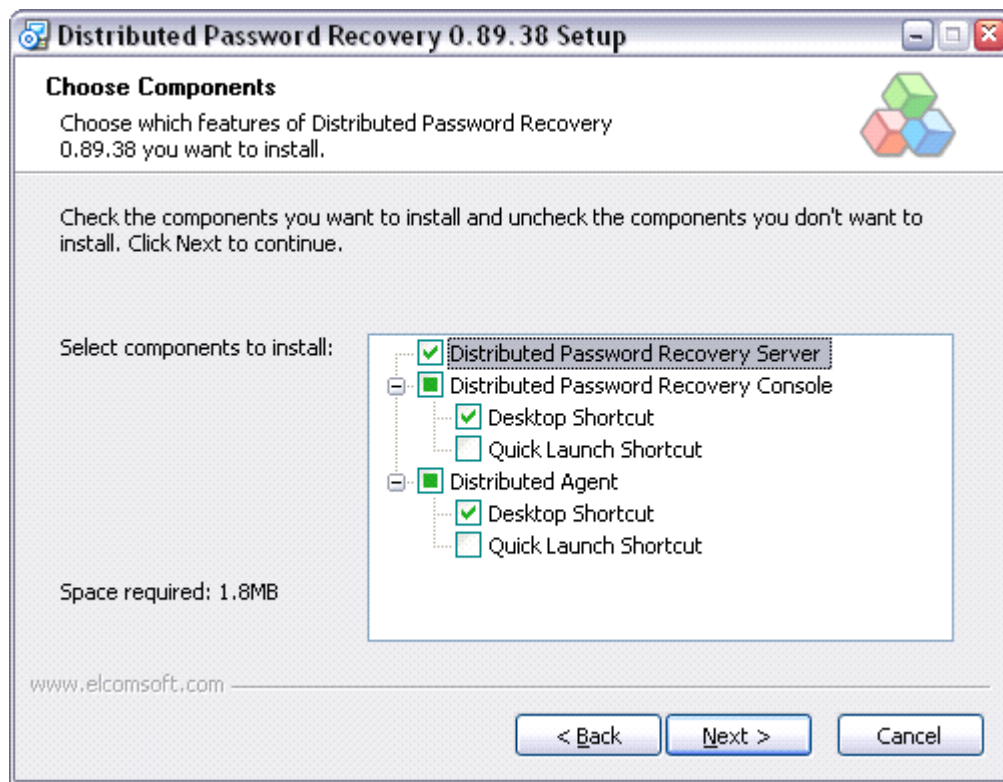


Figure 3.2.5 Dialog box to choose the components to install.

- choose the components you want to install and click "Next" (Fig. 3.2.5);

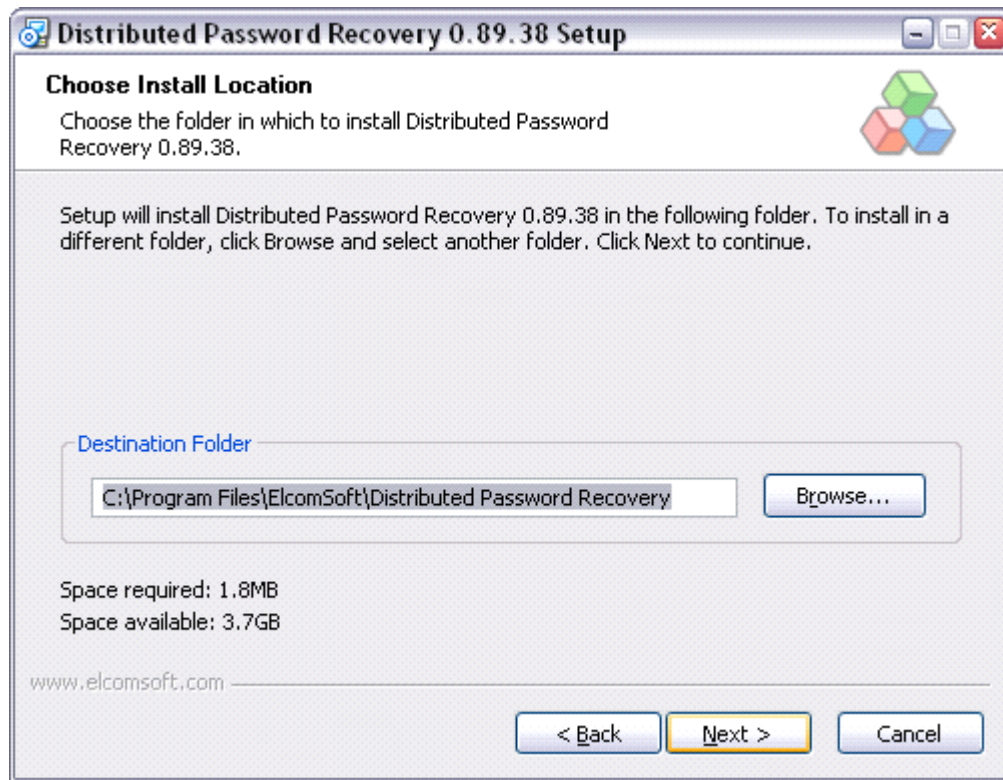


Figure 3.2.6 Select the folder to install the program in.

- click "Browse" if you want to change the default folder (Fig. 3.2.6), then select the folder needed and click "OK" (Fig. 3.2.7), when you have chosen the folder, click "Next" (Fig. 3.2.6);

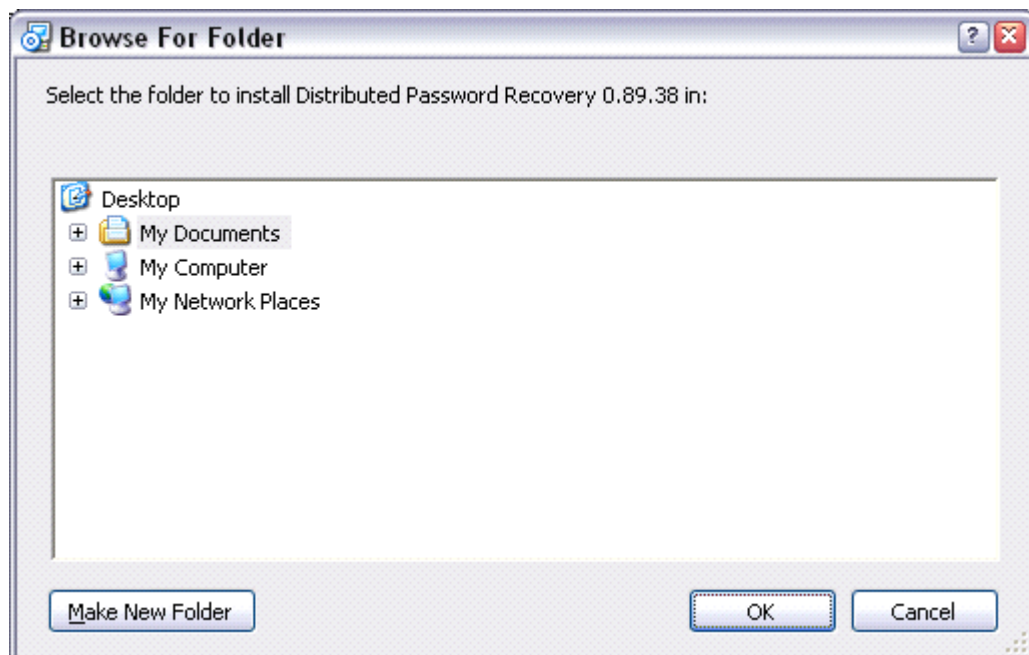


Figure 3.2.7 Folder selection dialog box.

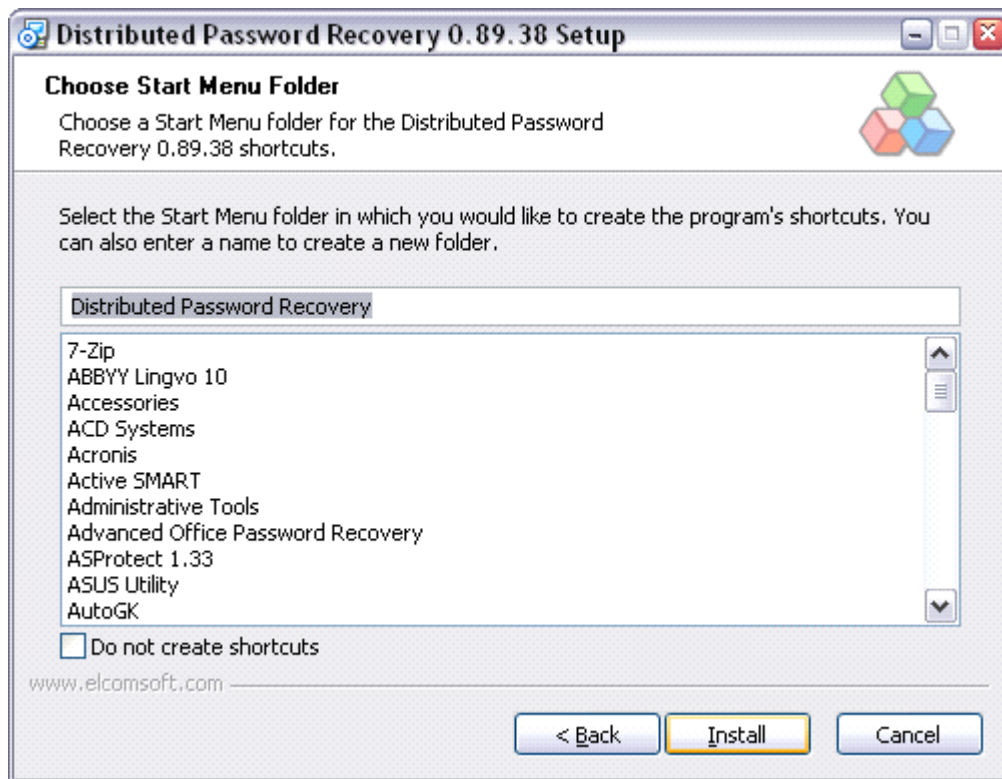


Figure 3.2.8 Choosing the folder in the program's Start Menu.

- provide the folder name in the Start Menu dialog box that appears (Fig. 3.2.8). Click "Install";



Figure 3.2.9 Dialog box to finish the setup process;

- uncheck the box in this dialog box if you don't want to launch the program the moment you click "Finish" (Fig. 3.2.9);
- click "Finish" to complete the setup process.

3.3 3.3. Reinstallation

Reinstallation takes place when you launch the installation program "edpr_setup.exe" while your computer already has this program installed. This procedure can be useful while updating the program; at this all its settings, data- and log-files will be saved.

To reinstall *ElcomSoft Distributed Password Recovery* on your computer:

- launch the "edpr_setup.exe" program;
- follow the setup program instructions (Fig. 3.2.2);
- click "Next" to continue setup or "Cancel" to quit it (Fig.3.2.3);
- click "I Agree" if you accept the license agreement terms; click "Cancel" to terminate the setup process; or "Back" to return to the previous window of the setup program (Fig. 3.2.4);
- choose the components you want to install and click "Next" (Fig. 3.2.5);
- uncheck the box provided in this dialog box if you don't want to launch the program the moment you click "Finish" (Fig. 3.2.9);

- click "Finish" to complete the setup process.

3.4 3.4. Uninstallation

To uninstall *ElcomSoft Distributed Password Recovery* from your computer:

- start uninstallation process using the standard means;
- click "Next" in the dialog box that will appear (Fig. 3.4.1);
- uncheck the "also delete log files" box if you don't want the log files created by the program to be deleted (Fig. 3.4.2);
- uncheck the "also delete data files" box if you don't want the data files created by the program to be deleted (Fig. 3.4.2);
- click "Uninstall" to begin uninstallation (Fig. 3.4.2);
- click "Finish" to complete uninstallation process (Fig. 3.4.3).

Now the program is uninstalled from your computer.



Figure 3.4.1 Start Uninstall Wizard dialog box.

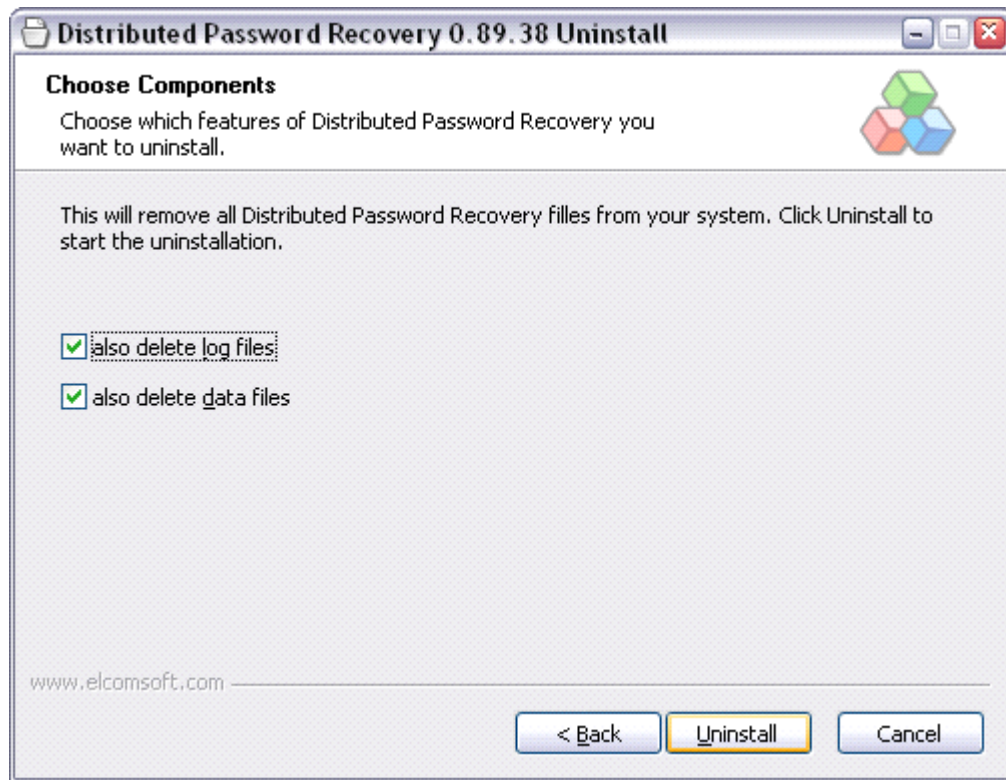


Figure 3.4.2 Select the components to be deleted and confirm the uninstall operation.



Figure 3.4.3. Completing the program uninstallation.

3.5. «Quiet» installation, installation on remote machines

«Quiet» installation is intended for remote installation of the program to a large number of computers in the network. In this case the setup program will not produce any dialogs.

To perform this installation you have to create a textual file of the ASCII format under the name of «agent_setup.ini» and put it near the setup program of «agent_setup.exe». The «agent_setup.ini» file consists of several sections where parameters names and their corresponding values are located. A section has the following view:

```
[Name_section]
Name_parameter_1=value_parameter_1
Name_parameter_2=value_parameter_2
```

At the beginning of the section there is its name in square brackets. Then there are lines with parameter values. To the left of the equality sign – name of next parameter, on the right - its value.

Inside, the «agent_setup.ini» file must comprise the following lines:

```
=====
[Install]
Folder=<folder for the program installation>
StartMenu=<0 | 1>
StartMenuFolder=<start menu folder>
Desktop=<0 | 1>
QuickLaunch=<0 | 1>
Run=<0 | 1>

[General]
Administration=<0 | 1>
ServerHost=<name or ip-address of sever >
ServerPort=<tcp-port of server>

[Interface]
HideIndicator=<0 | 1>
RunAs=<0 | 1>
Language=<english | german | japanese | russian>
=====
```

"Folder" - folder for program installation
 "StartMenu" =0 - don't create start menu folder; =1 - create menu folder
 "StartMenuFolder" - start menu folder name
 "Desktop" =0 - don't create desktop shortcut; =1 - create desktop shortcut
 "QuickLaunch" =0 don't create quick launch shortcut; = 1 - create quick launch shortcut
 "Run" - run the program after installation (=0 - don't run; =1 - run)

"Administration" - Set «0», if you want to configure working hours and priority yourself, «1», if you want working hours and priority to be administrated from the server
 "ServerHost" - the server name or ip-address to which the Agent will be connected
 "ServerPort" - the server port to which the Agent will be connected

"HideIndicator" - responsible for the presence of the Agent icon in the systems tree (0 –no, 1 –yes)
 "RunAs" =0 - run the program when a user logs in; =1 - run the program at Windows start-up
 "Language" - language of the program interface

Then, for instance, having administration rights, you will be able to:

- run the «Server» service if it has not been started;
- provide a general access to the folder with the «agent_setup.exe» and «agent_setup.ini» files;
- edit the task list of the AT service;
- start the AT service.

This way you can remotely install the Agent to the network machines.

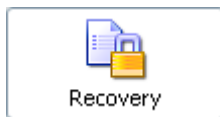
3.6 3.6. «Quiet» uninstallation, uninstallation from remote machines

«Quiet» uninstallation is intended for program deletion from a large number of computers in the network. In this case the program will not produce any dialogs.

Under starting the «agent_setup.exe» program with the key – **uninstall**, you will be able to automatically uninstall the program in the computer:

agent_setup.exe – uninstall

4 4. Document Password Recovery



To recover the password of a document you need:

- [to create a task](#);
- [to set up the task parameters \(fitting type and character set\)](#);
- [to launch the task](#);
- [to move the task up in the queue if necessary](#);
- [to wait for the result of the task completion](#).

The following provides the detailed description of these actions:

- [4.1. Create Task.](#)
- [4.2. Task start.](#)
- [4.3. Sequence of tasks processing.](#)
- [4.4. Suspend task processing.](#)
- [4.5. Stop task processing.](#)
- [4.6. Delete task.](#)
- [4.7. Export task.](#)
- [4.8. Import task.](#)
- [4.9. Task status.](#)

4.1 4.1. Create Task

To create a task, select the “New task” option in the server management console toolbar (Fig. 4.1). Choose the document which password you want to recover in the window that will appear and press

the “Open” button. Your task will appear in the task list in the “Recovery” window.



Figure 4.1 Create a new task.

Thus the task is created and you can start setting the task properties.

[4.1.1. Setting password fitting parameters.](#)

[4.1.2. Password character set.](#)

[4.1.3. Task comment.](#)

[4.1.4. Task processing results.](#)

[4.1.5. Field values in the task list.](#)

4.1.1 4.1.1. Setting password fitting parameters

Select the password fitting type in the “Password” tab of task properties (Fig. 4.1.1).

The image shows a dialog box with three tabs: "Password", "Comment", and "Result". The "Password" tab is selected. Under the "Length" radio button, there are two spinners: "Minimal" with the value "1" and "Maximal" with the value "5". Under the "Mask" radio button, there is a "Mask Symbol" field containing a question mark. The "Key (Guaranteed)" radio button is also visible but not selected.

Figure 4.1.1 Password fitting type

Three variants are available:

- password recovery by length
- password recovery by mask
- document decryption by key

Select the *minimal* and *maximal* length of the password when using the first option (*by length*).

When using the second (*by mask*) input *the mask* and *the mask character* if necessary. If you already know some characters in the password, you can specify the mask to decrease the total number of passwords to be verified. At the moment, you can set the mask only for fixed-length passwords, but doing this can still help.

For example, you know that the password contains 8 characters, starts with 'x', and ends with '99'; the other symbols are small or capital letters. So, the mask to be set is "x?????99", and the charset has to be set to "Uppercase Latin Letters" and "Lowcase Latin Letters". With such options, the total number of the passwords that *EDPR* will try will be the same as if you're working with 5-character passwords which don't

contain digits; it is much less than if the length were set to 8 and the all "Character groups" check boxes were selected. In the above example, the '?' chars indicate the unknown symbols.

If you know that the password contains an occurrence of the mask character '?', you can choose a different mask character to avoid having one character, '?', represent both an unknown pattern position and a known character. In this case, you could change the mask symbol from '?' to, for example, '#' or '*', and use a mask pattern of "x#####?" (for mask symbol '#') or "x*****?" (for mask symbol '*').

The third option needed for guaranteed document decryption.

4.1.2 4.1.2. Password character set

In the "Password" tab of task properties, select "Character Set" as well (Fig. 4.1.2).

Figure 4.1.2 Character set.

4.1.3 4.1.3. Task comment

In the "Comment" tab, the full path to the recovered document is shown by default, but you can change or add here any information.

4.1.4 4.1.4. Task processing results

If the task was completed successfully, the "Result" tab shows the password found. If the program is not registered and the password is longer than four characters, the "Result" tab may not show the password.

4.1.5 4.1.5. Field values in the task list

"object" - file name of the document meant for recovery.

"progress" - the percentage of task processing done.

"elapsed time" - time that has been already spent on the task processing.

"remaining time" - the amount of time supposedly enough for the task completion.

"cur. (avrg.) speed" - the current and average speeds of task processing.

["status"](#) - the current status of the task.

4.2 4.2. Task start

To start the task, press the “Start” button on the server management console toolbar (Fig. 4.2), keeping the task selected.

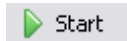


Figure 4.2.3 Task start.

4.3 4.3. Sequence of tasks processing

Tasks are processed in turn beginning with the top of the list. You can change the sequence at any moment and in any direction you want including the top and the bottom of the list. It can be done using the corresponding buttons on the toolbar (Fig. 4.3.1).



Figure 4.3.1 Buttons to move the task in the queue.

4.4 4.4. Suspend task processing

Task processing can be suspended by using the corresponding button (Fig. 4.4.1). This option may come in useful when, for example, you need to complete a task standing further in the list.



Figure 4.4.1 Suspend Task button.

4.5 4.5. Stop task processing

Task processing can be stopped if you, for example, need to restart it with other password fitting parameters. Select the task and press the corresponding button on the toolbar if you want to stop the task processing (Fig. 4.5.1).



Figure 4.5.1 Stop Task Processing Button.

4.6 4.6. Delete task

A task can be deleted by pressing the button shown in Fig.4.6.1.



Figure 4.6.1 Task Delete button.

4.7 4.7. Export task

Task export option allows you to save the results of task processing into a file. For example, you may need this to transfer task processing results from one server to another with subsequent importing the task into it.

To export a task:

- select it;
- choose the "Export..." command in the "Recovery" menu;
- provide the file name it should be saved in;
- press the "Save" button.

4.8 4.8. Import task

Task import is necessary to continue the task processing after it was exported.

To import a task:

- choose the "Import..." command in the "Recovery" menu;
- choose the file containing the previously exported task;
- press the "Open" button;

4.9 4.9. Task status

The "status" column shows the status of the task. The following variants are possible:

not started
waiting
in progress
paused
recovered
not recovered

not started - the task was created but not started or it was terminated;

waiting - the task was started, but it hasn't been processed yet;

in progress - the task is being processed at the moment;

paused - task processing was suspended by the user.

recovered - the task was completed, the password was found

not recovered - the task was completed, but the password was not found.

5 5. Agents



Under the *Agents* section, you can observe and change the list of agents registered on the server, their properties and status.

[5.1. Agent's properties.](#)

[5.2. Enabling and Disabling agents.](#)

[5.3. Removing not-responding agents.](#)

[5.4. About local agent.](#)

5.1 5.1. Agent's properties

Agent has the following properties:

- [host ip-address](#)
- [host name](#)
- [performance](#)
- [type of administration](#)
- [time to live](#)
- [status](#)
- [working hours](#)
- [work priority](#)
- [statistics](#)

5.1.1 5.1.1. Host IP-address

IP-address of the host, where the agent works.

5.1.2 5.1.2. Host name

The host name, where the agent works.

5.1.3 5.1.3. Performance

Relative (in percents) performance of the agent.

5.1.4 5.1.4. Type of administration

Agent's administration can be of two types: *local* or *remote*, can be set only on the agent side.

If the agent's administration type is set to *local*, then, from the server console, you can only observe the agent's work hours and work priority; if the administration type is set to *remote*, then, acting from the server, you can also change the agent's work hours and work priority.

5.1.5 5.1.5. Time to live

Shows how many minutes ago the agent last connected to the server.

5.1.6 5.1.6. Status

Displays the agent's current status. The agent's status can be one of the following and can be changed at any time:

- *working* – has taken the task and is calculating;
- *free* – no task for calculation;
- *off hours* – not working currently;
- *not responded* – has not connected during the assigned life time;
- *disabled* – is blocked by the user, cannot receive tasks.

5.1.7 5.1.7. Work hours

If the agent is administered remotely, you can set particular work hours for it, both for all week days and for each separate day. To do this, on the *Restrictions* tab in the agent's properties, select the week day, for which you intend to set the work hours, or "all days" option, and check the needed hours (Fig. 5.1.7). You can use "Select all", "Deselect all" options, to check/uncheck all work hours for the corresponding day or for all days.

Sunday	<input checked="" type="checkbox"/> 00:00 - 01:00	<input checked="" type="checkbox"/> 08:00 - 09:00	<input checked="" type="checkbox"/> 16:00 - 17:00
Monday	<input checked="" type="checkbox"/> 01:00 - 02:00	<input checked="" type="checkbox"/> 09:00 - 10:00	<input checked="" type="checkbox"/> 17:00 - 18:00
Tuesday	<input checked="" type="checkbox"/> 02:00 - 03:00	<input checked="" type="checkbox"/> 10:00 - 11:00	<input checked="" type="checkbox"/> 18:00 - 19:00
Wednesday	<input checked="" type="checkbox"/> 03:00 - 04:00	<input checked="" type="checkbox"/> 11:00 - 12:00	<input checked="" type="checkbox"/> 19:00 - 20:00
Thursday	<input checked="" type="checkbox"/> 04:00 - 05:00	<input checked="" type="checkbox"/> 12:00 - 13:00	<input checked="" type="checkbox"/> 20:00 - 21:00
Friday	<input checked="" type="checkbox"/> 05:00 - 06:00	<input checked="" type="checkbox"/> 13:00 - 14:00	<input checked="" type="checkbox"/> 21:00 - 22:00
Saturday	<input checked="" type="checkbox"/> 06:00 - 07:00	<input checked="" type="checkbox"/> 14:00 - 15:00	<input checked="" type="checkbox"/> 22:00 - 23:00
<all days>	<input checked="" type="checkbox"/> 07:00 - 08:00	<input checked="" type="checkbox"/> 15:00 - 16:00	<input checked="" type="checkbox"/> 23:00 - 24:00

Figure 5.1.7. Agent's work hours.

5.1.8 5.1.8. Work priority

Priority of calculations performed by the program, in relation to other working programs.

The default priority is set to *Normal*, or "ordinary system", which means that the program will use the processor only when it is not needed by the other programs.

If, for example, you set the priority to *Normal*, and run some "heavy" process along with the agent, they will divide the processor equally.

The priority can be changed only if the agent is administered remotely.

Priority

Normal

Below Normal

Low

Idle

Figure 5.1.8 Agent's work priority

5.1.9 5.1.9. Statistics

In the *Statistics* tab, in the agent's properties, registered is statistics about the number of tried passwords, keys and the processor time spent on that. Statistics is counted per current day, week, month and for all time elapsed after the previous statistics has been reset.

5.2 5.2. Enabling and Disabling agents

If you do not want some of the agents to take and perform work, you can disable it, by selecting this agent and choosing the "Disable" command on the toolbar. You can always enable it later, by selecting and pressing on the "Enable" command on the toolbar. (Fig. 5.2.2)

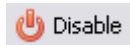


Figure 5.2.1. Disable agent command



Figure 5.2.2. Enable agent command

5.3 5.3. Removing not-responding agents

If the agent has the “*not responded*” status and you think that it will not connect to the server, you can remove it from the agent’s list, by using the “*Remove not responded*” command from the *Agent* menu.

5.4 5.4. About local agent

Local agent is not otherwise different from remote agents except for it works on the same machine with the server. Local agent is set for the connection with the local server from the very start, and doesn’t need any additional settings. For more detailed information about agent’s settings please see the corresponding documentation.

6 6. Connection settings



The “*Connection*” dialog box allows you to see and change the settings for the agent-server and console-server connections.

[6.1. Agents connection.](#)

[6.2. Console connection.](#)

6.1 6.1. Agents connection

Settings for agents connection are located under the *Agents* group (Fig. 6.1).

 A dialog box titled "Agents" in blue text. It contains three settings:

- TCP Port * :** A text input field containing "12121" and a "Default" button to its right.
- Time To Live, min :** A text input field containing "3" and a "Default" button to its right.
- Time To Live, d.hh:mm ** :** A text input field containing "3 min."

Figure 6.1. Agents connection.

[6.1.1. Agents TCP-port.](#)

[6.1.2. Agents time to live.](#)

6.1.1 6.1.1. Agents TCP-port

TCP-port on which the server waits for agents connections. The default port is 12121. If you want to reset the port setting to its default value, press the *Reset* button. Changing this option requires to restart the server.

6.1.2 6.1.2. Agents time to live

Agent's time to live sets the time after which, in case the agent has not connected, it passes to the “*not responded*” status and its work will be distributed between other agents.

6.2 6.2. Console connection

The console connection settings are located under the “*Console*” group (Fig.6.2.1).

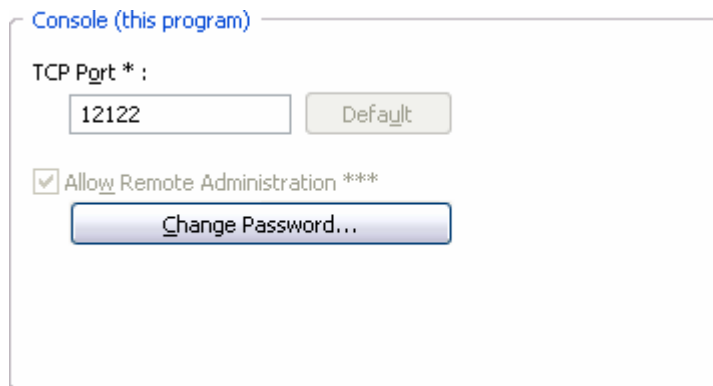


Fig. 6.2.1 Console connection.

[6.2.1. Console TCP-port.](#)

[6.2.2. Remote server administration.](#)

[6.2.3. Remote server administration password.](#)

6.2.1 6.2.1. Console TCP-port

TCP-port on which the server waits for the agents connections. The default port setting is 12122. If you want to reset the port setting to its default value, press the “*Reset*” button. Changing this option requires to restart the server.

6.2.2 6.2.2. Remote server administration

Selecting this option will allow connection to the server from another computer in the network, using the remote console. This option cannot be changed from the remote console.

6.2.3. Remote server administration password

Access to the server from the remote console can be protected by a password. To set or change the password, press the “*Change Password*” button and enter the password in the dialog that appears (Fig.6.2.3).



The image shows a standard Windows-style dialog box titled "Change Password". It contains three text input fields: "Old Password:", "New Password:", and "Confirm New Password:". At the bottom of the dialog are two buttons: "OK" and "Cancel". The dialog has a close button (X) in the top right corner.

Fig. 6.2.3 Changing the password.

7. Sending e-mail notifications (Alerts)



You can set the server to send e-mail notifications, or alerts, on certain events. In order to send alerts, turn on the “*Send Alerts*” option under the “*Alerts*” section, adjust the sending conditions, then adjust the message and SMTP-server parameters.

[7.1. Sending conditions.](#)

[7.2. Message parameters.](#)

[7.3. SMTP-server parameters.](#)

[7.4. Sending a test message.](#)

7.1. Sending conditions

The sending condition can be one of the following events:

- *password recovery has succeeded*
- *password recovery has not succeeded*
- *agent is not responding*
- *agent is not working.*

In case of these events, e-mail notifications will be sent.

Sending of each type of alert is turned on by selecting the corresponding option (Fig.7.1.1).



Send When

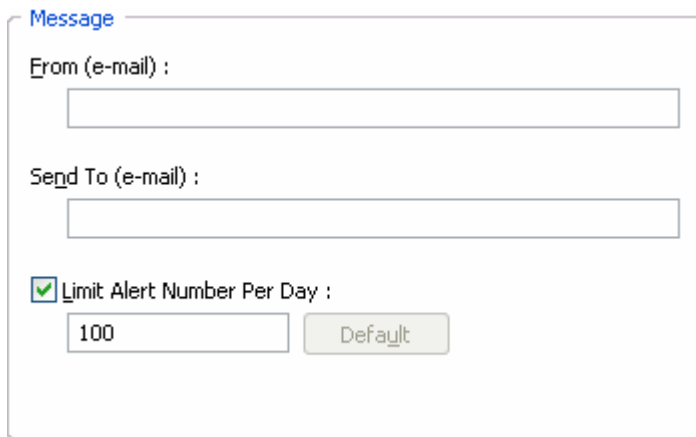
Password Is Recovered Agent Is Not Responded

Password Is Not Recovered Agent Is Not Working

Figure 7.1.1 Sending conditions for notifications.

7.2 7.2. Message parameters

The message parameters define from where and to whom the message will be sent, as well as the limit for the number of messages sent per day (Fig. 7.2).



Message

From (e-mail) :

Send To (e-mail) :

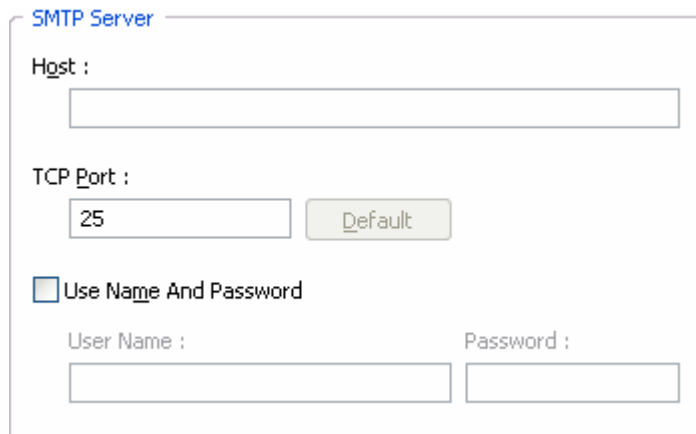
Limit Alert Number Per Day :

100 Default

Figure 7.2. Message parameters.

7.3 7.3. SMTP-server parameters

SMTP-server parameters define the e-mail server host and port, as well as the user name and password, if required (Fig.7.3).



SMTP Server

Host :

TCP Port :

25 Default

Use Name And Password

User Name : Password :

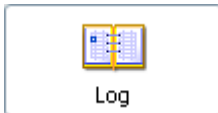
Figure 7.3. SMTP-server parameters.

Enter the host name or SMTP server IP address into the *Host* field, enter SMTP server port number into the *TCP Port* field, if it is different from standard value. If authentication is required to access the server, check the “*Use Name and Password*” option and enter the user name and password into appropriate fields.

7.4 7.4. Sending a test message

After you have set the *message parameters* and *SMTP server parameters*, and the console is currently connected to the server, you can send a text message, by pressing the “*Send Test Message*” button, to check that the settings have been done correctly.

8 8. Log settings



The “*Log*” section allows you to flexibly control the console and server logging systems.

[8.1. Maintaining the log.](#)

[8.2. Viewing the log.](#)

[8.3. Cleaning the log.](#)

[8.4. Details level.](#)

[8.5. Log size limit.](#)

[8.6. Setting the log file name.](#)

8.1 8.1. Maintaining the log

Check the “*Enable Log*” option, to create the log file for the program.

8.2 8.2. Viewing the log

Press the “*View Log*” button, to view the log contents. If the log is too large, and a standard viewing program has difficulties when displaying the log, use another viewing program, by opening with it the file indicated in the *File Name* field. The “*View Log*” button will be disabled if you are connected to the remote server.

8.3 8.3. Cleaning the log

Press the “*Clear Log*” button, to remove all records from the log and confirm that you really want to do this.

8.4 8.4. Details level

There are three details levels for the log: all possible messages – for debugging mode, *Informationen, warnungen und fehler* – default detail setting; *Nur Fehler* - if you do not want to record the program actions, except for the cases, when some errors occur. The details level is set by the checking the corresponding option (Fig. 8.4).

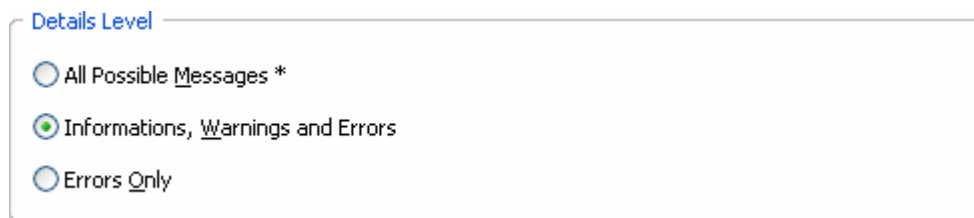


Figure 8.4. Log details level.

8.5 8.5. Log size limit

In order the log not to consume all space available on the disc, you can restrict its maximum size, at reaching this limit, the log will be cleaned and recorded anew. To limit the log size, select the corresponding option and set the log maximum size in KB.

8.6 8.6. Setting the log file name

The file name for the log is set in the “File Name” field.

9 9. Applying the changed settings

In order some changed settings come into effect, they must be applied. For that, press the “Apply” button on the toolbar. (Fig. 9.1).



Figure 9.1. The Apply button for the changed settings.

Also you can use the opportunity to undo and redo the settings. For that, use the corresponding buttons on the tool bar (Fig.9.2).



Figure 9.2. Undo and redo settings.

10 10. Updating information from the server

The default setting for updating console information from the server is 20 seconds, but you can change this time and even update the information immediately.

In order to change the update time, enter into the “View” menu, then “Update Speed” dialog and set the needed speed. The update speed can be one of the following:

- *high* (each 5 seconds);
- *normal* (each 10 seconds);
- *low* (each 20 seconds);
- *lowest* (each 40 seconds)

In order to update information on tasks or agents, press the “Refresh” button on the toolbar (Fig.10.1).



Figure 10.1. Updating information from server

11 11. Server management

The server management commands are located in the “Server” menu. Using them, you can select the server to work with, as well as start and stop the local server (Fig.11).



Figure 11. Server management commands.

[11.1. Select server.](#)

[11.2. Start and stop local server.](#)

11.1 11.1. Select server

To connect the console to another server, use the “Select..” command from the “Server” menu, then, in the dialog that appears, enter the server access password (if it has been set on the server), indicate the server name or IP address and press “OK”.

In case of successful connection you can manage the selected server. If the connection has failed – check the entered server requisites for correctness.

Remember that only one management console can be connected to the server at a time, and the local server settings can be changed only when it is not started.

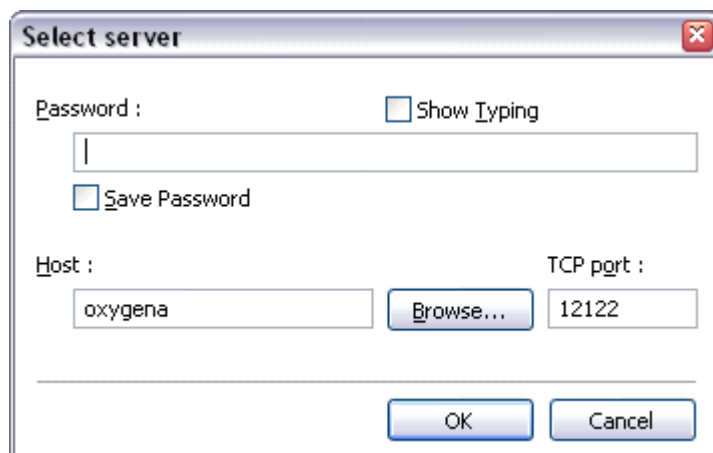


Figure 11.1. Selecting server.

11.2 11.2. Start and stop local server

Using the management console, you can start and stop the local server, define its type.

To start server as a usual application, use the “*Start As Application*” command from the “*Server*” menu. To start server as a service, use the “*Start As Service*” command from the “*Server*” menu.

To restart the server, use the “*Restart*” command from the “*Server*” menu.

To stop the server, use the “*Stop*” command from the “*Server*” menu.

12 12. Management console interface settings

The console interface settings can be changed in the “*View*” menu. (Fig.12).



Figure 12. The View menu

By using the “*Toolbar*” setting, you can turn on/off the toolbar display.

By using the “*Status Bar*” setting, you can turn on/off the Status Bar display

Using the “*View Bar Icons*” menu, you can select the optimal size of icons in the View Bar.

In the “*Interface Language*” menu, you can select the language for displaying the console and the program log files.

13 13. Entering and viewing Registration Code

In the “*Help*” menu, run the “*Registration Code*” command, then, in the dialog that appears, enter the registration code and press “OK” (Fig.14.1).

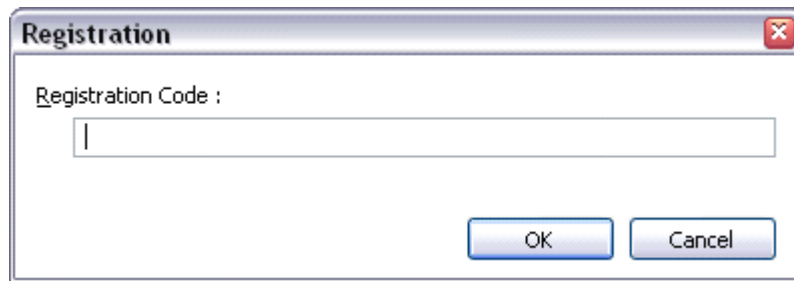


Figure 14.1. Program registration

In case of successful registration you will see the message shown in the Fig.14.2.



Figure 14.2. Successful registration.

If you have entered an erroneous registration code, you will see the message shown in the Figure 14.3. You will have to enter the code repeatedly.



Figure 14.3. Invalid registration code.

14 14. License Agreement

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3.1. Terms of Support. During the one-year period you are entitled to technical services and support for the Product which is provided to you by Licensor during the regular business hours (GMT+ 03:00), except for locally-observed holidays, and includes the support provided through a special technical support section of the Licensor's site (the "Site") and email support@elcomsoft.com. During such period of one year e-mail support is unlimited and includes technical and support questions and patch fixes.

3.2. Updates. During the one-year period, you may download Updates to the Product when and as the Licensor publishes them on the Site, or through other online services. If the Product is an Update to a previous version of the Product, you must possess a valid license to such previous version in order to use the Update. You may continue to use the previous version of the Product on your Client Device after you receive the Update to assist you in the transition to the Update, provided that: (i) the Update and the previous version are installed on the same Client Device; (ii) the previous version or copies thereof are not transferred to another party or Client Device unless all copies of the Update are also transferred to such party or Client Device; (iii) you acknowledge that any modification that you made to the Product may be lost, altered, distorted or destroyed rendering such modifications, Product or the part thereof inoperable or non-usable; and (iv) you acknowledge that any obligation the Licensor may have to support the previous version of the Product may be ended upon availability of the Update. Except for the rights to free Updates during the one-year period, as further defined herein, nothing in this Agreement shall be construed as to grant you any rights or licenses with regard to the new releases of the Product or to entitle you to any new release. This Agreement does not obligate the Company to provide any Updates. Notwithstanding the foregoing, any Updates that you may receive become part of the Product and the terms of this Agreement apply to them (unless this Agreement is superseded by a succeeding agreement accompanying such Update or modified version of the Product).

4. Restrictions.

4.1. No Transfer of Rights. You may not transfer any rights pursuant to this Agreement nor rent, sublicense, lease, loan or resell the Product. You may not permit third parties to benefit from the use or functionality of the Product via a timesharing, service bureau or other arrangement, except to the extent such use is specified in the application price list, purchase order or product packaging for the Product. Except as otherwise provided in Section 1.2 hereof, you may not, without the Licensor's prior written consent, reverse engineer, decompile, disassemble or otherwise reduce any party of the Product to human readable form nor permit any third party to do so, except to the extent the foregoing

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4.2. Proprietary Notices and Copies. You may not remove any proprietary notices or labels on the Product. You may not copy the Product except as expressly permitted in Section 2 above.

4.3. Compliance with Law. You agree that in Operating the Product and in using any report or information derived as a result of Operating this Product, you will comply with all applicable international, national, state, regional and local laws and regulations, including, without limitation, privacy, trademark, patent, copyright, export control and obscenity law and you shall not use the Product for unethical or illegal business practices or in violation of any obligation to a third party in using, operating, accessing or running any of the Product and shall not knowingly assist any other person or entity to so violate any obligation to a third party.

4.4. Additional Protection Measures. Solely for the purpose of preventing unlicensed use of the Product, the Software may install on your Client Device technological measures that are designed to prevent unlicensed use, and the Licensor may use this technology to confirm that you have a licensed copy of the Product. The update of these technological measures may occur through the installation of the Updates. The Updates will not install on unlicensed copies of the Product. If you are not using a licensed copy of the Product, you are not allowed to install the Updates. The Licensor will not collect any personally identifiable information from your Client Device during this process.

5. WARRANTIES AND DISCLAIMERS.

5.1. Limited Warranty. The Licensor warrants that for 90 days (the "Warranty Period") from the date the Registration Code is provided to you by Licensor, the media on which Product has been provided will be free from defects in materials and workmanship and that the Software will perform substantially in accordance with the Documentation or generally conform to the Product's specifications published by the Licensor. Non-substantial variations of performance from the Documentation do not establish a warranty right. THIS LIMITED WARRANTY DOES NOT APPLY TO UPDATES AS APPLIED TO ANY MODIFIED PRODUCT, WHETHER OR NOT SUCH MODIFICATION IS PERMISSIBLE HEREUNDER, TRIAL AND EVALUATION VERSIONS, UPDATES, PRE-RELEASE, TRYOUT, PRODUCT SAMPLER, OR NOT FOR RESALE (NFR) COPIES OF PRODUCT. This limited warranty is void and your support right terminate if the defect has resulted from accident, abuse, or misapplication or any modification, whether or not such modification is permitted hereunder. No warranty is made as to the integrity, protection or safekeeping of any modification to the Products made by you upon installation of any of the Updates. To make a warranty claim, you must return the Product to the location where you obtained it along with proof of purchase within such sixty (60) day period of the license fee you paid for the Product. THE LIMITED WARRANTY SET FORTH IN THIS SECTION GIVES YOU SPECIFIC LEGAL RIGHTS. YOU MAY HAVE ADDITIONAL RIGHTS WHICH VARY FROM JURISDICTION TO JURISDICTION.

5.2. Customer Remedies. The Licensor and its suppliers' entire liability and your exclusive remedy for any breach of the foregoing warranty shall be at the Licensor's option: (i) return of the purchase price paid for the license, if any, (ii) replacement of the defective media in which the Product is contained, or (iii) correction of the defects, "bugs" or errors within reasonable period of time. You must return the defective media to the Licensor at your expense with a copy of your receipt. Any replacement media will be warranted for the remainder of the original warranty period.

5.3. NO OTHER WARRANTIES. EXCEPT FOR THE FOREGOING LIMITED WARRANTY, AND FOR ANY WARRANTY, CONDITION, REPRESENTATION OR TERM TO THE EXTENT TO WHICH

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6. Indemnification

6.1. Indemnification for Violations. Your Operating of the Product, your accessing your account with Licensor and your entering into this Agreement constitutes your consent and agreement to defend, indemnify and hold harmless Licensor and its affiliated companies, employees, contractors, officers

and directors from any claim or demand, including reasonable attorney's fees arising out of your use of the Product in violation of this Agreement.

SPECIAL PROVISION APPLICABLE TO U.S. PERSONS AND ENTITIES.

7. U.S. Government-Restricted Rights.

7.1. Notice to U.S. Government End Users. The Product and accompanying Documentation are deemed to be "Commercial Items," as that term is defined at 48 C.F.R. par. 2.101, consisting of "Commercial Computer Software" and "Commercial Computer Software Documentation," respectively, as such terms are used in 48 C.F.R. par. 12.212 or 48 C.F.R. par. 227.7202, as applicable. Consistent with 48 C.F.R. par. 12.212 or 48 C.F.R. par. 227.7202-1 through 227.7202-4, as applicable, the Commercial Computer Software and Commercial Computer Software Documentation are being licensed to U.S. Government end users (a) only as Commercial Items and (b) with only those rights, including any use, modification, reproduction, release, performance, display or disclosure of the Product and accompanying Documentation, as are granted to all other end users pursuant to the terms and conditions herein. Unpublished-rights reserved under the copyright laws of the United States.

7.2. Export Restrictions. You acknowledge and agree that the Product may be subject to restrictions and controls imposed by the Export Administration Act and the Export Administration Regulations of the United States (the "Acts"). You agree and certify that neither the Product nor any direct product thereof is being or will be used for any purpose prohibited by the Acts. You may not Operate, download, export, or re-export the Product (a) into, or to a national or resident of, any country to which the United States has embargoed goods, or (b) to anyone on the United States Treasury Department's list of Specially Designated Nationals or the U.S. Commerce Department's Table of Deny Orders. By downloading or using the Product, you are representing and warranting that you are not located in, under the control of, or a national or resident of any such country or on any such list. You acknowledge that it is your sole responsibility to comply with any and all government export and other applicable laws and that the Licensor has no further responsibility for such after the initial license to you. You warrant and represent that neither the U.S. Commerce Department, Bureau of Export Administration nor any other U.S. federal agency has suspended, revoked or denied your export privileges.

8. Your Information and the Licensor's Privacy Policy

8.1. Privacy Policy. You acknowledge receipt of and agree to the Licensor's privacy statement which is made available to you in connection with installation and is set forth in full at <http://www.elcomsoft.com/privacy.html>. You hereby expressly consent to the Licensor's processing of your personal data (which may be collected by the Licensor or its distributors) according to the Licensor's current privacy policy as of the date of the effectiveness hereof which is incorporated into this Agreement by reference. By entering into this Agreement, you agree that the Licensor may collect and retain information about you, including your name and email address. The Licensor employs other companies and individuals to perform certain functions on its behalf. Examples include fulfilling orders, delivering packages, sending postal mail and e-mail, removing repetitive information from customer lists, analyzing data, providing marketing assistance, processing credit card payments, and providing customer service. They have access only to personal information needed to perform their functions, but may not use it for other purposes. The Licensor publishes a privacy policy on its web site and may amend such policy from time to time in its sole discretion. You should refer to the Licensor's privacy policy prior to agreeing to this Agreement for a more detailed explanation of how your information will be stored and used by the Licensor. If "you" are an organization, you will ensure that each member of your organization (including employees and contractors) about whom personal data may be provided to the Licensor has given his or her express consent to the Licensor's processing of such personal data. Personal data will be processed by the Licensor or its distributors in the country where it was collected.

8.2. Public Announcements. The Licensor may identify you to the public as a customer of the Licensor and describe in a customer case study the services and solutions delivered by the Licensor to you. The Licensor may also issue one or more press releases, containing an announcement of the

execution and delivery of this Agreement and/or the implementation of the Product by you. Nothing contained in this Section shall be construed as an obligation by you to disclose any of your proprietary or confidential information to any third party. In addition, you may opt-out from this Section by writing an opt-out request to the Licensor at info@elcomsoft.com.

9. Miscellaneous.

9.1. **Governing Law; Jurisdiction and Venue.** This Agreement shall be governed by and construed and enforced in accordance with the laws of the Russian Federation without reference to conflicts of law rules and principles. To the extent permitted by law, the provisions of this Agreement shall supersede any provisions of the Uniform Commercial Code as adopted or made applicable to the Products in any competent jurisdiction. This Agreement shall not be governed by the United Nations Convention on Contracts for the International Sale of Goods, the application of which is expressly disclaimed and excluded. The courts within the Russian Federation shall have exclusive jurisdiction to adjudicate any dispute arising out of this Agreement. You agree that this Agreement is to be performed in the Russian Federation and that any action, dispute, controversy, or claim that may be instituted based on this Agreement, or arising out of or related to this Agreement or any alleged breach thereof, shall be prosecuted exclusively in the courts in of the Russian Federation and you, to the extent permitted by applicable law, hereby waive the right to change venue to any other state, county, district or jurisdiction; provided, however, that the Licensor as claimant shall be entitled to initiate proceedings in any court of competent jurisdiction.

9.2. **Period for Bringing Actions.** No action, regardless of form, arising out of the transactions under this Agreement, may be brought by either party hereto more than one (1) year after the cause of action has occurred, or was discovered to have occurred, except that an action for infringement of intellectual property rights may be brought within the maximum applicable statutory period.

9.3. **Entire Agreement; Severability; No Waiver.** This Agreement is the entire agreement between you and Licensor and supersedes any other prior agreements, proposals, communications or advertising, oral or written, with respect to the Product or to subject matter of this Agreement. You acknowledge that you have read this Agreement, understand it and agree to be bound by its terms. If any provision of this Agreement is found by a court of competent jurisdiction to be invalid, void, or unenforceable for any reason, in whole or in part, such provision will be more narrowly construed so that it becomes legal and enforceable, and the entire Agreement will not fail on account thereof and the balance of the Agreement will continue in full force and effect to the maximum extent permitted by law or equity while preserving, to the fullest extent possible, its original intent. No waiver of any provision or condition herein shall be valid unless in writing and signed by you and an authorized representative of Licensor provided that no waiver of any breach of any provisions of this Agreement will constitute a waiver of any prior, concurrent or subsequent breach. Licensor's failure to insist upon or enforce strict performance of any provision of this Agreement or any right shall not be construed as a waiver of any such provision or right.

9.4. **Contact Information.** Should you have any questions concerning this Agreement contact us at legal@elcomsoft.com.

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15. Technical Support

For **Technical Support** please contact us by E-Mail at support@elcomsoft.com.

In the subject of your Mail, please write:

"EDPR x.y",

where x.y is the version number, followed by **problem**, **suggestion** or whatever else.

You can also contact our Customer Service Department at info@elcomsoft.com and sales department at sales@elcomsoft.com.

Our Fax numbers:

+1 866 448-2703 (US and Canada, toll-free)
+44 870 831-2983 (UK)
+49 692 557-7249 (Germany)

Please write in **English** language only.

16 16. ICU license

ICU License - ICU 1.8.1 and later

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