

User Manual



© 2004-2011 Doctor Web. All rights reserved.

This document is the property of Doctor Web. No part of this document may be reproduced, published or transmitted in any form or by any means for any purpose other than the purchaser's personal use without proper attribution.

TRADEMARKS

Dr.Web, the Dr.WEB logo, SpIDer Mail, SpIDer Guard, CureIt!, the Dr.WEB INSIDE logo are trademarks and registered trademarks of Doctor Web in Russia and/or other countries. Other trademarks, registered trademarks and company names used in this document are property of their respective owners.

DISCLAIMER

In no event shall Doctor Web and its resellers or distributors be liable for errors or omissions, or any loss of profit or any other damage caused or alleged to be caused directly or indirectly by this document, the use of or inability to use information contained in this document.

Dr.Web® Enterprise Agent for Novell® NetWare® Version 6.0 User Manual 08.02.2011

Doctor Web Head Office 2-12A, 3rd str. Yamskogo polya Moscow, Russia 125124

Web site: www.drweb.com Phone: +7 (495) 789-45-87

Refer to the official web site for regional and international office information.

Doctor Web

Doctor Web develops and distributes Dr.Web® information security solutions which provide efficient protection from malicious software and spam.

Doctor Web customers can be found among home users from all over the world and in government enterprises, small companies and nationwide corporations.

Dr.Web antivirus solutions are well known since 1992 for continuing excellence in malware detection and compliance with international information security standards. State certificates and awards received by the Dr.Web solutions, as well as the globally widespread use of our products are the best evidence of exceptional trust to the company products.

We thank all our customers for their support and devotion to the Dr.Web products!



Table of Contents

| Chapter 1. Welcome to Dr.Web® Enterprise | |
|---|----|
| Suite | 5 |
| 1.1. Conventions and Abbreviations | 5 |
| 1.2. Dr.Web Enterprise Suite Anti-Virus | 6 |
| Chapter 2. Dr.Web® Enterprise Agent for Novell® NetWare® | 7 |
| 2.1. Main Functions and Parameters of the Dr.Web ${ m I}$ Agent | 7 |
| 2.2. System Requirements | 8 |
| 2.3. Installing and Removing Dr.Web® Agents | 9 |
| Chapter 3. Configuring Integration with Dr.Web® Enterprise Suite | 11 |
| 3.1. Configuring Dr.Web® Agent | 11 |
| 3.2. Registering with Enterprise Suite Server | 12 |
| 3.3. Launching Dr.Web® Anti-Virus for Novell® NetWare® | 13 |
| 3.4. Configuring via the Dr.Web® Control Center | 14 |
| Chapter 4. Dr.Web® Agent for Novell® | |
| NetWare [®] Settings | 16 |
| 4.1. [Logging] Section | 16 |
| 4.2. [Agent] Section | 17 |
| 4.3. [Server] Section | 18 |
| 4.4. [EnterpriseMode] Section | 18 |
| 4.5. [StandaloneMode] Section | 19 |
| 4.6. [Update] Section | 20 |
| Appendix A. Technical Support | 21 |

4



Chapter 1. Welcome to Dr.Web® Enterprise Suite

1.1. Conventions and Abbreviations

The following conventions are used in the Manual:

| Symbol | Comment |
|---------------------------|--|
| i Note, that | Marks important notes or instructions. |
| Warning | Warns about possible errors. |
| Dr.Web Agent | Names of Dr.Web products and components. |
| Anti-virus network | A term in the position of a definition or a link to a definition. |
| <ip-address></ip-address> | Placeholders. |
| Cancel | Names of buttons, windows, menu items and other user interface elements. |
| CTRL | Keyboard keys names. |
| C:\Windows\ | Names of files and folders, code examples, input to the command line and application output. |
| Chapter 3 | Cross-references or Internal Hyperlinks to web pages. |

The following abbreviations will be used in the Manual without further interpretation:

- OS operating system,
- PC personal computer.



1.2. Dr.Web Enterprise Suite Anti-Virus

Dr.Web Enterprise Suite is designed to organize and control integrated, complex and reliable anti-virus protection of computers of a company.

Protected computers are united in an anti-virus network, which is managed by the administrator through the **Enterprise Server**. The anti-virus protection of company's employees computers is automated and administered centrally, which provides for a reliable safety level, while user interference is minimal.

Dr.Web Enterprise Suite provides for

- centralized (without user intervention) installation of the antivirus packages on computers,
- · centralized setup of anti-virus packages on protected computers,
- centralized virus databases and program files updates on protected computers,
- monitoring of virus events and the state of anti-virus packages and OS's on all protected computers.

Dr.Web Agents are installed on protected computers. These components provide for computer protection and connection with the **Enterprise Server**, through which anti-virus programs and their components are updated and set up in general.



Chapter 2. Dr.Web® Enterprise Agent for Novell® NetWare®

2.1. Main Functions and Parameters of the Dr.Web® Agent

Anti-virus protection of servers operated by Novell NetWare is provided by means of components included in the anti-virus package of **Dr. Web Anti-virus for Novell NetWare**.

Dr.Web® Enterprise Agent for Novell® NetWare® (hereinafter - **Dr.Web Agent**) implements computer's protection management and connection to the **Enterprise Server**.

Dr.Web Agent can operate in one of the following modes:

- Standalone.
- Enterprise.

Actual functions performed by **Dr.Web Agent** depend on its operation mode.

In the Enterprise mode, the Dr.Web Agent serves the following functions:

- Provides a connection with the **Enterprise Server**.
- Updates and sets up the anti-virus package components.
- Defines operation policy of anti-virus packages according to current license.
- Sends the results of scans and virus events statistics to the antivirus **Server**.

In the *Stanalone* mode, the **Dr.Web Agent** do not establish connection with the **Enterprise Server**.





When **Dr.Web anti-virus solutions** are integrated with **Dr.Web Enterprise Suite**, users must have appropriate permissions to configure anti-virus packages on their computers. For details on permission restriction, see **Dr. Web Enterprise Suite Administrator Guide**.

2.2. System Requirements



Do not install other anti-virus programs, including other **Dr. Web** programs, on computers with an installed anti-virus **Agent**.

Installing two anti-virus programs on one computer may lead to system crash and loss of important data.

Dr.Web Agent is a NetWare Loadable Module[®] (NLM[®]) that supports operation on servers running under Novell NetWare 3.12, 3.2, 4.11, 4.2, 5.1, 6.0, or 6.5 operating system.

For integration with **Dr.Web Enterprise Suite** anti-virus network, it is required:

- Dr.Web Anti-virus for Novell NetWare of 5.0 version and later.
- Dr.Web Agent for Novell NetWare of 6.0 version and later.
- Dr.Web Enterprise Suite of 6.0 version and later.



2.3. Installing and Removing Dr.Web® Agents

Dr.Web[®] Agent Installation

To install the Dr.Web Agent:

- 1. Download the **Agent** distribution kit from the <u>http://www.</u> <u>drweb.com/</u> **Doctor Web** web site.
- 2. Unpack the **Agent** distribution archive into the installation directory of the **Dr.Web Anti-virus for Novell NetWare**.
- 3. Configure integration of **Dr.Web Anti-virus for Novell NetWare** with **Dr.Web Enterprise Suite** (see <u>Chapter 3</u>. <u>Configuring Integration with Enterprise Suite</u>).

Dr.Web[®] Agent Removing



After removing anti-virus software, remote computer will not be protected from security threats.

- From the Dr.Web Anti-virus for Novell NetWare Console, stop the drwebnw module.
- Run the following command to unload Dr.Web Agent: unload nwesag
- Delete the nwesag. nlm Agent module from the installation folder of the Dr.Web Anti-virus for Novell NetWare at the Novell NetWare server.

Also delete the following files, which are used by the Agent:

- agent.pwd password file,
- agent.cfg Agent configuration file,
- agent.log Agent log file,



- <u>drwcsd.pub</u> public key file, that is used for connecting to the **Enterprise Server**,
- agent.reg file, that contains the list of installed updates,
- <u>cache</u> temporary directory where the **Agent** stores downloaded update files.



Chapter 3. Configuring Integration with Dr.Web® Enterprise Suite

If the **Dr.Web for Novell NetWare Anti-virus** is already installed on Novel NetWare server, it is possible to connect this server to the **Dr.Web Enterprise Suite** anti-virus network.

To configure integration with Dr.Web Enterprise Suite

- 1. Install and configure **Dr.Web Anti-virus for Novell NetWare**. For details, refer to **Dr.Web Anti-virus for Novell NetWare User Manual**.
- 2. <u>Install</u> the **Dr.Web Agent**.
- 3. <u>Configure</u> the **Dr.Web Agent** for operating in **Enterprise** mode.
- 4. Launch the Dr.Web Agent.
- 5. <u>Register</u> the remote computer at the **Enterprise Server**.
- 6. <u>Configure</u> settings of **Dr.Web** anti-virus components for Novell NetWare via the **Dr.Web** Control Center.

3.1. Configuring Dr.Web® Agent

After the **Agent** is successfully installed, its configuration files must be changed manually to configure **Enterprise** mode.

Configuring Enterprise Mode

You must unload **Dr.Web Agent** before editing the configuration file. Otherwise your changes will be lost, since the program overwrites this file after each session with recently used settings.



To configure the Enterprise mode of the Agent:

- Open the Agent <u>configuration file</u> for editing in a text editor. By default, the configuration file is located in the installation folder and is called agent.cfg.
- 2. In the [EnterpriseMode] section, set the following parameters:
 - PublicKeyFile path to the public key file for access the Enterprise Server.
 - ServerHost the Enterprise Server IP address.
 - ServerPort the Enterprise Server port number (by default, 2193).
- 3. Copy the public key file from the Enterprise Server to the directory on the remote computer that you specified in the PublicKeyFile parameter at the previous step.
- 4. Save changes in the configuration file.

3.2. Registering with Enterprise Suite Server

Registration

When the **Agent** is launched in the **Enterprise** mode, it must accomplish the registration at the **Enterprise Server** and get account details (station ID and password).

Registration at the **Enterprise Server** can be provided by one of the following ways:

- 1. If **Enterprise Suite Server** is set to operate in Approve access manually mode, then registration of the new workstation must be confirmed by an anti-virus network administrator via **Dr.Web Control Center**.
- If Enterprise Suite Server is set to operate in Approve access automatically mode, station will be registered automatically at the Enterprise Server at first access.



Accessing modes configuration is described in the **6.1** chapter of the **Dr.Web Enterprise Suite Administrator manual**.

After registration, the **Agent** records the hash of station ID and password to the password file.

Password File

Connection between **Enterprise Server** and **Agents** running on remote computers is carried out using special password files that store information on remote computers, identifiers and connection passwords. Data from this file is used every time **Agents** connect to **Enterprise Servers**.

For remote computers running under Novell NetWare operating systems, the path to the password file should be set in the PasswordFile parameter in the [EnterpriseMode] section of the Agent configuration file (by default, agent.pwd that is stored at the directory, specified in the agent.cfg).

According to the specified path, the **Agent** creates the password file at first connection to the **Enterprise Server**.

If the password file has been deleted, repeated registration request will be made to **Enterprise Server** when **Agent** launches next time.

3.3. Launching Dr.Web® Anti-Virus for Novell® NetWare®

After you configured integration with **Enterprise Server**, start the **Dr.Web Anti-virus for Novell NetWare**.

To launch the system:

1. Run the following command from the server or a remote console to start **Dr.Web Agent**:



load [<full_path>] nwesag

where *<full_path>* is the path to the **Agent** installation folder on the server. If the directory is located according to the path in the server configuration files, you do not need to enter the path.

2. Agent loads necessary modules automatically.



If you have not installed latest updates and patches for Novell NetWare, the module may not load. In this case, the following message displays:

... Module nwesag.nlm cannot be loaded until CLIBAUX loaded...

You can find necessary updates at <u>http://support.novell.</u> <u>com/patches.html</u>.

If **Dr.Web Anti-virus for Novell NetWare** is configured to provide e-mail notifications, the tcpip.nlm module is to be loaded on the server, which requires the TCP/IP protocol to be configured. Otherwise, the following error message displays at startup:

TCPIP.NLM not loaded (error <error number>). Some additional features are not available.

3.4. Configuring via the Dr.Web® Control Center

Dr.Web Anti-virus for Novell NetWare package includes default configuration files for supported **Dr.Web** anti-virus components.

When you configure anti-virus components via the **Dr.Web Control Center**, values for the corresponding parameters are changed at the **Enterprise Server** and transferred to the **Agent** every time when **Dr.Web** anti-virus components start on remote computers.





For details on **Dr.Web Anti-virus for Novell NetWare** parameters, refer to Chapter 4 of **Dr.Web Anti-virus for Novell NetWare User Manual**.

For details on managing remote anti-virus solutions via the **Dr.Web Control Center**, refer to **Dr.Web Enterprise Suite Administrator Guide**.



Chapter 4. Dr.Web® Agent for Novell® NetWare® Settings

Dr.Web Agent settings can be configured via the agent.cfg configuration file. This file is located in the same directory as the drwebnw.nlm and nwesag.nlm program modules. If the configuration file is missing, the program will use the default settings. In any case all settings of the last session are saved to the configuration file automatically.



You must unload **Dr.Web Agent** before editing the configuration file. Otherwise your changes will be lost, since the program overwrites this file after each session with recently used settings.

Agent configuration file contains the following sections:

- [Logging] logging options for registration of virus events on remote computer.
- [Agent] Agent general settings.
- [Server] Enterprise Server connection settings.
- [EnterpriseMode] settings of the Agent operation within the Dr.Web Enterprise Suite anti-virus network.
- [StandaloneMode] settings of the Agent operation in the Standalone mode.
- [Update] additional update parameters.

4.1. [Logging] Section

In the [Logging] section, logging options on virus events at the remote computer are set:



| Parameter | Description |
|----------------|---|
| Level | Sets one of the following log detail level: |
| | Debug – log debugging events (maximum detail); |
| | Info – log information messages; |
| | Alert – log major informational messages; |
| | Error – log operation errors; |
| | Quiet – inform on most severe errors only (minimum detail). |
| IPCLevel | Sets one of the log detail level for the interprocess communication module. |
| | Details levels are similar to levels of the Level parameter. |
| SyslogFacility | Type of device for generation of event notifications, if the system log service is enabled |
| FileName | Name for the log file (agent.log). You may specify syslog as a value, the report will be logged by means of syslogd system service. |

4.2. [Agent] Section

In the [Agent] section, general options of the Agent are set:

| Parameter | Description |
|-------------------------|--|
| MetaConfigDir | Path to the directory with meta-configuration file of the Agent |
| UseMonitor | Defines, if active scan processes are monitored. ${\tt yes}$ and ${\tt no}$ are allowed. |
| MonitorAddress | Socket for monitoring system |
| MonitorResponse Time | Maximal response time for monitoring system |
| PidFile | Path to PID file, which has been written during Agent launch |



4.3. [Server] Section

In the [Server] section, parameters for communication with the **Enterprise Server** are set:

| Parameter | Description |
|-----------|--|
| Timeout | Period for Agent to wait for connection from the Enterprise Suite Server |
| Address | Socket for connection between Agent and MailD module |
| Threads | Number of synchronous threads for connection with the Server . |

4.4. [EnterpriseMode] Section

In the [EnterpriseMode] section, parameters for operation of the Agent in Enterprise mode are set:

| Parameter | Description |
|-------------------|---|
| UseEnterpriseMode | Defines, if the Agent operates in the Enterprise mode. Allowed values: yes - the Enterprise mode is enabled, no - operation is in the Standalone mode |
| PasswordFile | Location of the <u>password_file</u> used when Agent connects to the Enterprise Server |
| ComputerName | Agent for NetWare name. If not set, the host name is used |
| VirusbaseDir | Location of Dr.Web virus databases |
| PublicKeyFile | Location of the drwcsd. pub - the Dr.Web Agent public key file |
| ServerHost | The Enterprise Server IP address |
| ServerPort | The Enterprise Server port |
| CryptTraffic | Encryption settings for traffic between Agent for NetWare and Enterprise Server : |



| Parameter | Description |
|-----------------|---|
| | • Yes – enables obligatory traffic encryption for all components; |
| | Possible – instructs to encrypt traffic with those components whose settings do not prohibit it; |
| | • No – encryption is not supported |
| CompressTraffic | Compression settings for traffic between Agent for NetWare and Enterprise Server : |
| | Yes – enables obligatory traffic compression for all components; |
| | Possible – instructs to compress traffic with those components whose settings do not prohibit it; |
| | • No – compression is not supported |

4.5. [StandaloneMode] Section

In the [StandaloneMode] section, options of the Standalone mode of the Agent not connected to the Enterprise Server are set:

| Parameter | Description |
|------------------------|---|
| StatisticsServer | IP address or DNS name of virus statistics server of Doctor Web company |
| UrlStatisticsServer | IP address or DNS name of server of collecting statistics on harmful web sites URL |
| StatisticsUpdatePeriod | Period of updating statistics by the Agent in minutes (not less than 6 minutes) |
| StatisticsProxy | IP address or DNS name of http proxy server for sending the virus statistics |
| StatisticsProxyAuth | Login and password for authentication on proxy server |
| UUID | Should be set only if personal UUID is used for accessing to statistics server |



| Parameter | Description |
|-----------------|---|
| LicenseFile | Path to local licence key file. You can specify several key files |
| ProtectedEmails | List of protected e-mails. You can specify addresses directly or via the file or Idap |

4.6. [Update] Section

In the [Update] section, additional update parameters for the remote computer are set:

| Parameter | Description |
|-----------|--|
| CacheDir | A temporary directory where the Agent stores downloaded update files (cache) |
| RegFile | A file where the Agent registers installed updates (agent.reg) |
| Timeout | Maximal allowed time in seconds for receiving updates by the $\ensuremath{\textbf{Agent}}$ |
| RootDir | Root directory |

Dr.Web software updates are loaded and installed automatically as they become available. In critical situations you can manually update the software components.



For details on the update procedure, refer to Dr.Web Antivirus for Novell NetWare User Guide.



Appendix A. Technical Support

Support is available to customers who have purchased a commercial version of **Dr.Web** products. Visit **Doctor Web Technical Support** website at <u>http://support.drweb.com/</u>.

If you encounter any issues installing or using company products, take advantage of the following **Doctor Web** support options:

- Download and review the latest manuals and guides at http://download.drweb.com/
- Read the frequently asked questions at <u>http://support.drweb.</u> <u>com/</u>
- Look for the answer in Dr.Web knowledge database at http://wiki.drweb.com/
- Browse Dr.Web official forum at http://forum.drweb.com/

If you have not found solution for the problem, you can request direct assistance from **Doctor Web Technical Support** by filling in the web-from in the corresponding section of the support site at http://support.drweb.com/.

For regional office information, visit the **official Doctor Web website** at <u>http://company.drweb.com/contacts/moscow</u>.

© 2004-2011 Doctor Web