ViPNet Password Generator 4.1

User's Guide

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About This Document

This document provides information about the purpose and functionality of ViPNet Password Generator, and all the information required to take advantage of the program features and options.

Audience

The present guide is intended for the following user categories:

- system administrators controlling access to different resources by means of passwords;

- common users benefitting from strong random password in their everyday work.

Document Conventions

This document concerns the following conventions:

Table 1. Document conventions

Icon	Description
	Warning: Indicates an obligatory action or information which may be critical for continuing user operations.
	Note: Indicates a non-obligatory, but desirable action or information which may be helpful for users.
	Tip: Contains additional information.

Table 2. Conventions for highlighted information

Icon	Description
Name	The name of an interface element. For instance, the name of a window, a box, a button or a key.

Icon	Description
Key+Key	Shortcut keys. To use the shortcut keys, press and hold the first key and press other keys.
Menu > Submenu > Command	A hierarchical sequence of elements. For instance, menu items or sections in the navigation pane.
`Code`	A file name, path, text file (code) fragment or a command executed from the command line.

Feedback

Finding Additional Information

For more information about Infotecs Americas products and technologies, see the following resources:

- ViPNet documentation web portal http://www.infotecs.us/doc_vipnet/ENU/index.htm.

- Information about current Infotecs products http://infotecs.us/products/.

- Information about Infotecs solutions http://infotecs.us/solutions/.

- Frequently asked questions http://www.infotecs.us/doc_vipnet/ENU/index.htm#3_17014.htm.

Contacting Infotecs

We value any feedback from you. If you have any questions concerning Infotecs Americas products and solutions, any suggestions, complains or other feedback, feel free to contact us by means of the following:

- Support request form http://infotecs.us/support/.

- Support email: support@infotecs.us.

- Sales email: sales@support.us.

- Telephone (support): +1 (347) 748-1244.

- Telephone (sales): +1 (347) 748-1244.

- Skype: infotecs.us.

Errata

Infotecs Americas makes every effort to ensure that there are no errors or misprints in the text of all documents supplied with ViPNet software. However, no one is perfect, and mistakes do occur. If you find an error in one of our documents, like a spelling mistake or some inaccuracy in describing user scenarios or system features, we would be very grateful for your feedback. By sending in errata you may save other reader hours of frustration, and at the same time you will be helping us provide documentation in even higher quality.

About ViPNet Password Generator

ViPNet Password Roulette is intended for creating easily memorable random passwords based on passphrases.

System Requirements

 Note: ViPNet Password Generator has been tested to meet all of the technical requirements to be Windows® 8 and Windows 8.1 Compatible

The minimum system requirements for your computer to run ViPNet Password Generator are as follows:

- Processor: at least Pentium III.

- Minimum RAM: 512 MB.

- Free disk space: at least 300 MB.

- Operating system: Microsoft Windows XP (32 bit), Server 2003 (32 bit), Vista (32/64 bit), Server 2008 (32/64 bit), Windows 7 (32/64 bit), Server 2008 R2 (64 bit), Windows 8 (32/64 bit), Windows 8.1 (32/64 bit).

  You must install the latest service pack for your version of Windows.

What's New in Version 4.1

This section contains a brief description of changes made for ViPNet Password Generator 4.1 and its new features.

- **New interface**

  Now you perform all the actions with ViPNet Password Generator in one window. Design and color palette of the software have been improved.

Figure 1: New program interface

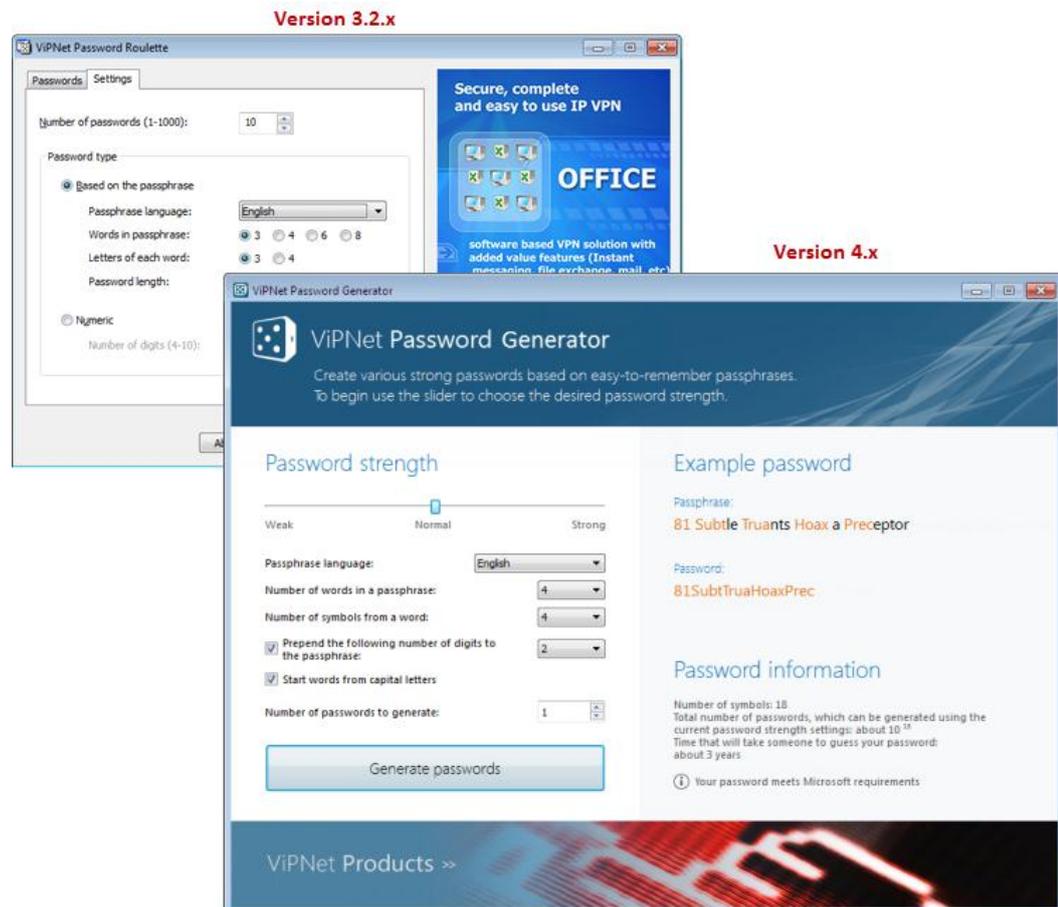- **Extended settings for generating passwords based on passphrases**

  In the ViPNet Password Generator version 4.1, you can generate only passwords based on random passphrases. For this, you can use one of the three preinstalled levels of password strength and acquire information on passwords of the chosen strength level, including information on your password meeting the Microsoft requirements.

Figure 2: Configuring password strength

- **Increased level of password strength**

  With ViPNet Password Generator version 4.1, you can generate passwords up to 24 characters long with numbers and uppercase letters. The strongest password consists of five words and digits.

- **Possibility to generate a higher number of passwords at the same time**

  With ViPNet Password Generator version 4.1, you can define a number of passwords (1 to 9999) you would like to generate using the specified parameters. Then, if necessary, save generated passwords as a text file or print them.

- **Passphrase in other languages**

  Now you can generate passphrase in French, Spanish and Portuguese.

- **Compatibility with Windows 8 and Windows 8.1 operating systems**

  ViPNet Password Generator has been tested to meet all of the technical requirements to be Windows 8 and Windows 8.1 Compatible. You can find information on the ViPNet Password Generator software in the Windows Compatibility Center http://www.microsoft.com/en-us/windows/compatibility/CompatCenter/ProductDetailsViewer?Name=ViPNet%20Password%20Generator&vendor=INFOTECS&Locale=1049&ModelOrVersion=4.

- **Other localizations**

    The English, German, Spanish, and French interfaces of the software have been updated.

Working with the Program

Installing the Program

To install ViPNet Password Generator, launch the setup file and follow the instructions in the setup program.

Starting the Program

To start ViPNet Password Generator do one of the following:

- On the **Start** menu, select **All Programs** > **ViPNet** > **ViPNet Password Generator**, and click **ViPNet Password Generator**.

    At the installation, the path to the program on the **Start** menu might have been changed.

- On the desktop, double-click the shortcut (this shortcut is displayed only if the corresponding option has been selected during the installation).

When you start the program, the **ViPNet Password Generator** window is displayed on the screen.
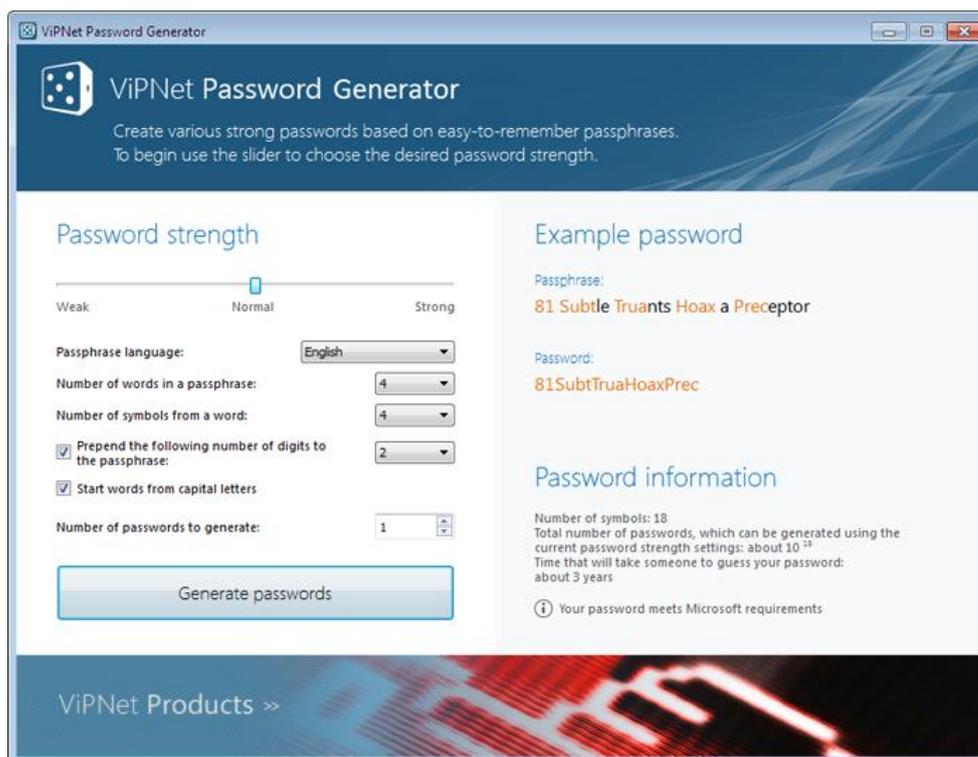
Figure 3: The ViPNet Password Generator window

Passwords Based on Passphrases

Passwords consisting of a set of randomly chosen symbols are difficult to remember. The ViPNet Password Generator software allows you to generate passwords which you can memorize using a special passphrase.

A passphrase is a grammatically well-structured sentence with the words randomly chosen from the special dictionaries. A passphrase allows you to memorize passwords easily. You can create passphrases in the following languages, according to your preferences: Russian, English, German, Franch, Spanish, and Portuguese.

The password length and, consequently, its strength depend on the number of words in a passphrase. A passphrase is based on the following principle:

72 Odious Welders Abscise Destructive Listener

72 Odio Weld Absc Dest List

passphrase

password

Figure 4: An example of a password and a passphrase

A password is generated due to the following rule: N initial letters are taken without spaces from each of passphrase words. You can set the N parameter value, number of words in a passphrase, passphrase language, and usage of digits and uppercase letters.

For instance, the scheme (see figure on page 11) shows how a password is generated on the basis of an English passphrase consisting of five words and two digits. The password consists of two digits and four initial letters of each passphrase word.

Generating Passwords

To generate passwords:

1 Set the desired password strength level: either **Weak**, **Normal**, or **Strong**. Reliability of your password depends on its strength.

2 When necessary, change the default password parameters used for the chosen strength level.

3 In the **Password information** section, the information on reliability of the passwords is displayed as well as information on your passwords meeting the Microsoft requirements. Meeting the Microsoft requirements may be useful when you plan to use the password in Microsoft products.

   Make sure that passwords are reliable enough.

Note: To meet the Microsoft requirements, passwords should comply with the following parameters:

- the password is at least six characters long;
- the password contains characters from at least three of the following five categories: English uppercase characters (A – Z), English lowercase characters (a – z), base 10 digits (0 – 9), non-alphanumeric (for example: !, $, #, or %), Unicode characters.

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4   Define a number of passwords to be generated.

5   Click **Generate passwords**.

The **Generated Passwords and Passphrases** window with a list of passwords and passphrases that correspond to your parameters will be shown

6   When necessary, print the list or save it as a text file.

Basic ViPNet Products

ViPNet Password Generator is a freeware product of the Infotecs company. You can use it either together with other products of the company, or independently.

The present chapter describes the basic products of the Infotecs company based on a proprietary ViPNet technology. For more information, see the products documentation and the Online Knowledge Base http://www.infotecs.biz/doc_vipnet/ENU/#1_main.htm.

Table 3. Basic ViPNet products

Product	Purpose
ViPNet VPN software components http://infotecs.biz/products/	
ViPNet Network Manager	Deployment and management of a virtual private network.
ViPNet Coordinator	Private ViPNet network server which performs coordinator functions, notably: VPN server, VPN packets router, VPN gateway, transport server and firewall.
ViPNet Coordinator HW/VA	Linux-based software solution intended to function as a coordinator in a secure ViPNet VPN network.
ViPNet Coordinator Linux	Private ViPNet network server installed on the Linux operating system with 2.4.2/31-2.6.2/39 cores (RedHat, Suse, etc.) and functioning as a coordinator.
ViPNet Coordinator HW1000 hardware and software solution	Integrated solution based on several hardware platforms and the software developed by the Infotecs company and intended for VPN networks protection.

Product	Purpose
ViPNet Client	ViPNet network client software which filters the open traffic and encrypts the network traffic of your computer. In addition, the software allows you to securely exchange mail messages, chat messages, and files.
ViPNet Client iOS	Network traffic protection when you connect an Apple device to a protected ViPNet network or the Internet. Traffic is protected through encryption, decryption, and IP packets filtering.
ViPNet Policy Manager	Centralized management of ViPNet hosts security policies. Functions together with either ViPNet Client, or ViPNet Coordinator.
ViPNet StateWatcher	The system of centralized ViPNet network monitoring (acquiring information about the current status of the ViPNet hosts, notifying the administrator about failures in hosts operation, etc.)
ViPNet SafeDisk-V, ViPNet SafeDisk	Access restriction of users working on the host to the information on this host. ViPNet SafeDisk-V functions together with either ViPNet Client, or ViPNet Coordinator.
ViPNet CSP	A cryptographic service provider, which calls cryptographic functions from various Microsoft programs and other programs using the Microsoft CryptoAPI 2.0 interface.