



***UnifyMe* DNS Update Tool**

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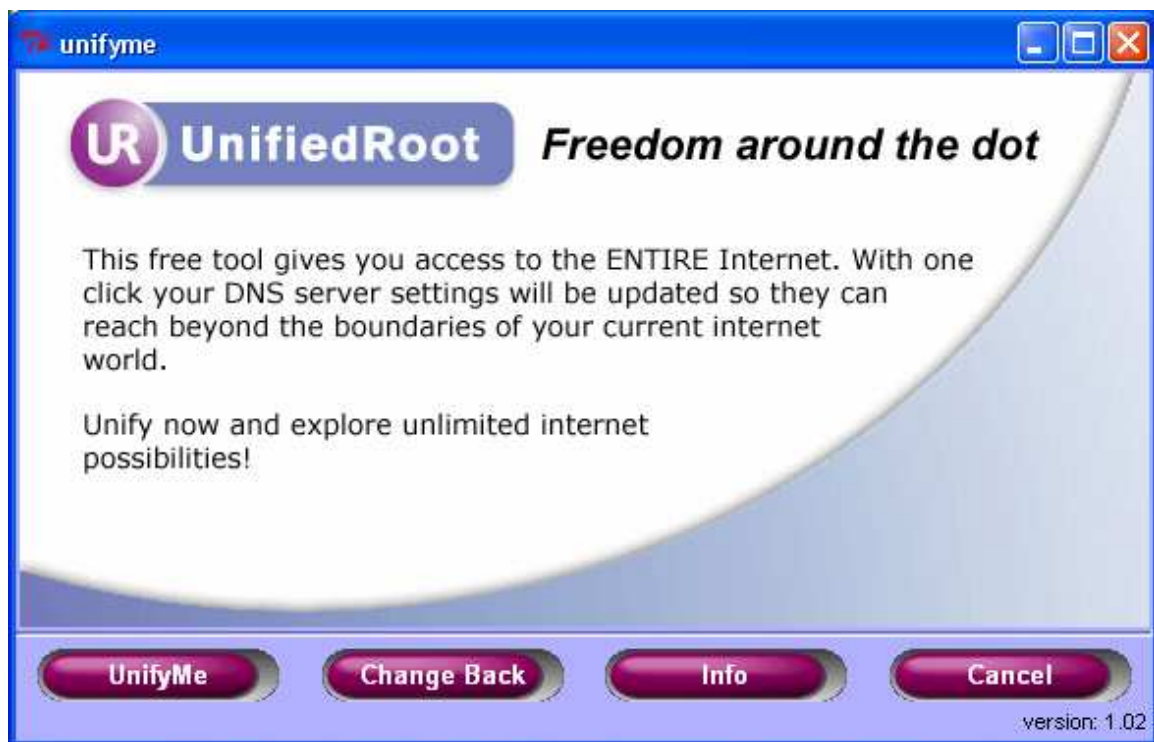
UnifiedRoot *UnifyMe* DNS Update Tool

To assist individuals to change the DNS settings on their local PC, UnifiedRoot has asked WildOpenSource (<http://www.wildopensource.com>) to develop a tool. This tool is written in an open source language and the latest version is available from the UnifiedRoot (<http://www.unifiedroot.com/ur/tool/UnifyMe.exe>) webpage.

Note: At this time, the UnifyMe tool only works on Microsoft Windows NT, Windows 2000 and Windows XP workstations. We would like to expand the scope of the tool to include other operating systems, such as Linux. Any help and/or suggestions to accomplish this would be appreciated.

Manual

When the tool is started, the user will be confronted with the window shown below.



To get "Unified", the user will select the "UnifyMe" button. The tool determines which interface is currently connected to the Internet and changes the DNS servers on that interface only. The new addresses used will be the UnifiedRoot DNS servers (ns1.unifiedroot.net and ns2.unifiedroot.net). After a moment a



"Success" message is displayed confirming the DNS settings have been changed. The user clicks the "OK" button to finish and exits the application.

Whenever the user wants to revert back to the old DNS settings, the button "Change Back" can be used. The network settings as they were before will be restored. This can be done because the old settings have been saved in a file on the local hard disk ("C:\SavedDNSservers.txt").

If the "UnifyMe" button is pressed twice, the tool will detect the second attempt and will ask the user if he/she is certain about this. If confirmed, the old DNS settings will be overwritten and can not be restored anymore!

The "Info" button produces a pop-up window with an explanation of the tool.

Finally the "Cancel" button exits the tool without changing anything.

Technical details

Open Source Language

The DNS Update Tool is called "UnifyMe" and has been developed in TCL. TCL (Tool Command Language) is a very powerful but easy to learn dynamic programming language, suitable for a very wide range of uses, including web and desktop applications, networking, administration, testing and many more. Open source and business-friendly, TCL is a mature yet evolving language that is truly cross platform, easily deployed and highly extensible. See: <http://www.tcl.tk> for more information on this scripting language.

Starkit executable

UnifyMe.exe is a TCL program packaged as a "Starkit" executable. A Starkit is a wrapping mechanism for delivering an application in a self-contained, installation-free, and portable way. The name comes from being based on a **StandAlone Runtime kit**. A Starkit creates the illusion of a "file system in a file" - on the outside, it's a single file, yet the application code continues to see a complete directory of scripts, extensions, packages, images, and whatever other files it needs.

From the end-user perspective, a Starkit is just another executable. A link to the UnifyMe.exe file on the web site will permit users to run it directly or download it and run the program locally.

In some circumstances, a web browser will bring up a dialog box saying that the file is not digitally signed by a company known to the browser. The browser asks the user for permission to continue. In this case, the user can safely select to run the program and the program will execute.

Rebuilding the Tool

An important aspect of open source code is that the executable can be recreated from the source code. This enables anyone to check the code for anomalies or any other tricks.

To find all details on how to rebuild a TCL starkit, please check out the site <http://www.equi4.com/tclkit.html>. From this page all individual components can be downloaded to build/recreate the executable from the source code in the zip file as described below.

The file *UnifyMe.zip* (<http://www.unifiedroot.com/ur/tool/UnifyMe.zip>) contains everything a developer needs to rebuild the starkit executable on either a

Windows or Linux system (although the tool has no use on a Linux system yet, it can be created on one). The file needs to be unpacked, which will result in a folder called "UnifyMe".

The actual source code is in the *UnifyMe.vfs* folder. The following files are of special interest:

- **UnifyMe.tcl** is the main script. If desired, one can edit this to change or add new functionality.
- Details such as colors, fonts, etc. are set in the file **constants.tcl**. This file can be edited to modify these parameters and change the appearance of the tool.

To build the new starget executable you must return to the UnifyMe directory and execute "winpack.bat" (if running on a Windows system). The tool can also be created on a Linux system by running the "linpack" utility. Till now, the tool is not working on the Linux platform however. The user will have to change the DNS servers manually as described on the website.

Both the Windows and Linux method will produce "UnifyMe.exe" as the new executable.