JSENTRYPRO

Version 1.0.3

TELRA SOFTWARE

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CONTENTS

1.   **OVERVIEW**

JSentryPro is a *100% Pure* Java^{TM} proxy server that allows Internet access from all the PC's or workstations in your network through one server. It is designed for both home and business use and supports unlimited connections - the only limitations are your server and connection speed.

JSentryPro supports all basic HTTP requests and files, including:

- HTML/TEXT
- Images (GIF and JPG)
- Sound and Video (WAV, MPEG, etc.)
- Java Applets (class files)
- Standard GET and POST requests
- Basic Authentication
- Standard Cookies

JSentryPro also has security features that allow you to restrict access to certain sites, as well as to authorize users' Internet access on a PC basis.

For additional questions and help, please consult our website at www.telra.com. There you will find FAQ sheets to help with your questions. If you still cannot solve your problem or have found a bug, e-mail support@telra.com. Please include your operating system, the version of **JSentryPro** and Java you running, and the specific error or problem.

2.   **SOFTWARE REQUIREMENTS**

JSentryPro is written entirely in Java, and requires either the *Java Development Kit* (JDK 1.1.6) or the *Java Runtime Environment* (JRE 1.1.6). We recommend the JRE 1.1.6 for Windows users, because it contains the Symantec JIT compiler for performance increase and because it is easy to install and configure if you are not familiar with Java. Other platforms should use the standard JDK.

JSentryPro will run on any Java platform, including Window 95, Windows NT, Solaris, Macintosh and AIX. Although Linux is not a Java platform that is supported by JavaSoft, there are Linux ports of the JDK available from third parties. We plan to start officially supporting Linux by the fall of '98.

Both the JDK and JRE are available for free download from JavaSoft at sun.java.com.

3. HARDWARE REQUIREMENTS

JSentryPro requires about 100 KB of space to install (250 KB for Windows), plus any space that the JDK or JRE install takes. Hardware requirements are dependent on the number of users to whom you intend to grant access. At an absolute minimum we recommend a 133 MHz processor and 32 MB of RAM with at least a 33KB connection. Recommended configuration is a 200 MHz processor with 96 MB of RAM and at least a 56KB connection. As you add more users, you should increase your memory and processor speed, as well as your line speed.

4. INSTALLING

JSentryPro comes in different formats depending on your platform:

Windows:	Self-installing EXE file
UNIX:	TAR file
Mac:	ZIP file

JSentryPro can be installed in any directory you wish, but all files must be installed in the same directory. After extracting the contents you should see several files. Please note the following files:

- A *readme.txt* file which contains brief instructions.
- This manual, *JSentryPro.pdf*.
- *jsentrypro.jar* - an archive file which contains the compiled program.
- A sample startup file, *jsentrypro.bat*, which starts the server application (this is a Windows example). Adjust accordingly for other platforms. Windows users can also use the shortcut created during installation.
- A configuration file, *jsentrypro.ini*, which contains configuration settings. Do NOT edit this file.

No changes to your system are made during the installation. To un-install **JSentryPro**, simply delete the directory where you installed all the files.

5. RUNNING

After installing the application, start the server as outlined below. If you have installed in the default directory, you can run the provided script files (UNIX) or shortcut/BAT files (Windows). Windows users should always use the JREW command, which does not create a DOS window, as the JRE command does.

Windows Users

- Run the shortcut on your Start Menu (default directory only) OR,
- create a shortcut using the following command:
  jrew –cp c:\path_to_install\jsentrypro.jar telra.jsentrypro.JSentryPro c:\path_to_install

Other Users

Configure the *jre* or *java* command as follows:

JRE Users

- use the *jre* command to run the program, followed by the *-cp* flag
- specify the absolute path to *jsentrypro.jar*
- specify the **JSentryPro** program (*telra. jsentrypro. JSentryPro*)
- specify the directory where you installed **JSentryPro**

JDK Users

- add the path with the *jsentrypro.jar* file to your CLASSPATH
- use the *java* command
- specify the **JSentryPro** program (*telra. jsentrypro. JSentryPro*)
- specify the directory where you installed **JSentryPro**

Execute the startup file, which should in turn execute the *jre* or *java* command to start the server interface screen. For further information on setting the CLASSPATH and using the JAVA and JRE commands, see our web site at www.telra.com or the JavaSoft web site at java.sun.com.

6.   USING THE INTERFACE

The **JSentryPro** interface screen is where you administer and configure the server. The interface is an easy to use screen that allows users to start and stop the server and view logs.

Main Screen

The main screen is the most frequently used part of the interface. This is where you start and stop the server and view basic start-up messages and log files. When the interface starts you should receive a message that states that the configuration information was successfully read.

To start the server, press the Start button. To stop the server, press the Stop button. A status line tells you state of the server. Each start and stop of the server

will result in a message being written to the Message area on the screen. Critical errors will also be written here.

The activity log will be populated only if the **Logging** option set **ON**. A log of every connection request from a client PC is written to this log, so it can get quite large. It is erased each time you stop and re-start the server, as well as when you exit **JSentryPro**.

A text version is also created in the default directory with the file name *jsentrypro.log*. This log is not affected when you clear or save the on-line log. It is also reset each time the server is stopped and re-started, however it is not erased when you exit **JSentryPro**.

Menu Options

JSentryPro has several standard menu options:

File – Exit : exits you from **JSentryPro**. Remember that exiting will stop the HTTP server from running and users will not have Internet access.
Options – Configuration: displays the configuration window (see below)
Options – Clear Log: clears the activity log
Options – Clear Messages: clears the message window
Server – Start/Stop – starts and stops the HTTP server (same as the buttons)
Help – About: displays the version of **JSentryPro** you are running.
Help – Contents: displays help about the screen you are on.

Configuration Window

The Configuration Options window is used to set parameters that customize your **JSentryPro** server installation. Default values are pre-set the first time your use **JSentryPro** – you should set them as you wish.

Logging – If **ON** logs all connection and HTTP information.
Auto Start – If **ON**, the server automatically starts when JSentryPro is launched. If it is **OFF**, the server must be started manually by pressing the Start button.
Auth Users - If **OFF**, all network users have Internet access. If **ON**, only PC's under IP entries have access.
Site Block - If **OFF**, all sites are allowed accessed. If **ON**, sites under URL entries are blocked from access.
Port - the port on which **JSentryPro** should run. Must be numeric.
Authorized IP Addresses - IP addresses of the PCs that are authorized to access the Internet via **JSentryPro**, used in conjunction with **Auth Users**. Place each IP address on a separate line.

Restricted Internet Web Sites - WWW addresses of sites that are blocked for access, used in conjunction with **Site Block**.

After you make the appropriate changes, press the **Update** button. Please note that any changes you make while the server is running will not be applied until you stop and re-start the server. You do not need to exit the administrator interface.

If you make changes and decide not to save them, press the Reset button – all entries will be reset to the values since the last update.

7.   CONFIGURING CLIENTS

Once **JSentryPro** is running, you just change each client PC browser to use a manual proxy, specifying the IP address of the server and the port on which **JSentryPro** is listening.

Configuring Netscape Communicator 4

1. Select the **Edit - Preferences** menu option
2. A dialog box will appear
3. Open the **Advanced** tree
4. Select **Proxies**; the right-hand side of the screen will display proxy information
5. Click on **Manual proxy configuration**
6. Click the **View** button
7. Under **HTTP**, enter the **IP address** and **Port** where **JSentryPro** is running
8. If you are also on an Intranet, list the server names in the **Exceptions** box
9. Click **OK** on the **Manual proxy configuration** window
10. Click OK on the **Preferences** window

Configuring Microsoft Internet Explorer 4

1. Select **View – Internet Options**
2. Click on the **Connection** tab
3. Check **Access the Internet using a proxy server**
4. Enter the **IP address** and **Port** where **JSentryPro** is running
5. If you are on an Intranet, click **Bypass proxy server for local addresses**
6. Click the **OK** button

After you have configured the browser to use **JSentryPro** as the proxy server, when the user types in a WWW address, they should access **JSentryPro**, which will in turn get the HTTP request from the Internet. Your server with **JSentryPro** must have Internet access (modem or direct line). The machine that is running

JSentryPro must have direct Internet access – it cannot connect through a proxy server.

JSentryPro has been certified with IE and Netscape 4.0 browsers. We will not support older versions of these browsers, however JSentryPro has been tested with IE and Netscape 3.0 and works.

8.   LIMITATIONS

JSentryPro will not work with secure (SSL) connections. Sophisticated Java applets (such as ones that connect back to a remote server) might not work.

Please bear in mind that we have tested JSentryPro with hundreds of commercial sites, and have tried to anticipate and test every possible browser option, script language, web server process, etc. In the event you receive an unexpected response, please contact us at support@telra.com.

Because JSentryPro is *100% Pure* Java^{TM} certified product, platform specific features that would require a call to the native operating system, such as auto-dial, will not be supported, because this would cause us to lose our certification from JavaSoft and Sun Microsystems.

9.   PLATFORM SPECIFIC ISSUES

Because JSentryPro is a cross-platform Java solution, there are some issues regarding configuration and execution. While this list is not complete, we have listed issues our customers and our development staff have encountered.

Windows 95 / NT

- Please bear in mind that Java is CASE SENSITIVE, and all directory names must match those in your startup script. Windows is NOT case sensitive, so Windows users are usually not accustomed to this.

- Java cannot read file names with spaces (i.e., PROGRAM FILES) For these directories, use the short version (i.e., PROGRA~1). It is recommended to use the default (c:*telra\jsentrypro*) directory structure. If you install in this directory, you can run the BAT file without changing anything.

- If you use the default directory (c:\telra\jsentrypro), and are using the JRE, you should be able to start JSentryPro by simply double-clicking the shortcut.

10.   FUTURE

JSentryPro will have additional features added in the future, including:

- E-mail support (POP3, SMTP) – scheduled **Fall '98**
- FTP support

Please see our website for further details.

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