



# ELLSWORTH PUBLISHING CO.

Specialists in Internet based  
Keyboarding and Ten Key Data Entry Courses

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## Technical Specifications for KeyboardingOnline.com users

### Operating Software Requirements:

Windows 98 or higher

Mac OS 10+

Linux/Unix\*\*

Web Browser: Firefox, Internet Explorer, Safari, Opera, and others.

\*\*Any operating system supporting a Java plugin 1.3 or higher

### Third Party Software Requirements:

Java plugin/runtime (JRE) 1.3 or higher on student computers; 1.4 or higher on teacher computers.

-The most current JRE is 1.6x. Ellsworth Publishing Co. (EPC) software programs are actively maintained Java projects and will always be compatible with the most current JRE and actively used older JRE's.

### Explanation of bandwidth needs:

-EPC software programs (Java Applets) utilize compression on both client/server programs and data files to minimize bandwidth needs.

-Student keyboarding programs are approximately 300 KB in download size (expand to over 600KB on client machines).

-Student data files range in size from 1KB – 25KB in download size; the range varies on the number of scores that get recorded as the student progresses through the programs. Some programs will have more scores than others.

-No streaming is used. When the program is downloaded, no additional downloading is used as students progress from lesson to lesson. Scores are not uploaded after every exercise but are saved to a temporary file in memory that is uploaded every 15 minutes or when the student exits. This means that you could easily experience a 5-10 minute Internet outage and not notice any problems. Internet access is needed to start the program and to end the program (upload the student's data file).

-In our experience we have seen schools with a shared 512 DSL connection successfully use EPC keyboarding online software. Home users can easily use their own broadband or dial-up Internet access.

-Caching: The JRE will automatically cache the programs that are downloaded. When a request is made, the JRE first checks to verify if the Applet program being held in cache is the same version as the one to be downloaded. If so, it simply loads the program locally and only must download the student data file—saving even more bandwidth. This allows for tremendous bandwidth saving when multiple classes are using the same labs.

### Support & Updates:

-Support is provided directly by EPC. Support is not contracted to third-party suppliers; our support and responsiveness is first-class service. These products are developed in-house by EPC staff and EPC staff provides support to the school (any home users will need to get support from their instructor and/or other designated school staff).

-Updates are automatic, without cost, and without any software to install or upgrade. Since this is a product directly developed and maintained by EPC, new features and enhancements continue to be added based on instructor feedback.

**\*\*EPC is pleased to offer any school a 60-day FREE trial to try out our programs.**