

# WinScribe Speech Recognition

On average, we speak seven times faster than we can type. As a result, companies are looking for ways of harnessing the power of speech recognition technology to speed up transcribing times for recorded speech, and improve productivity and accuracy.

*"Not only did WinScribe exceed all of our requirements, but we are simply amazed by the improved report turnaround time. We are certainly singing WinScribe's praises."*

Howard  
Sanford  
Aiken Regional  
Medical Center

Speech Recognition technology has been available for several years, but until more recently did not provide a compelling business case for implementation. Older versions of speech recognition required the author to change their dictation habits to suit the technology, while still producing results that did not reach customer expectations and achieve tangible productive gains.

WinScribe's Speech Recognition integration addresses these issues, and delivers the promise of this exciting technology. No special words or phrases are required so the authors work practices are completely unaffected.

## Improve document turnaround time

WinScribe Speech Recognition uses its advanced workflow management rules to match the recorded dictation with an appropriate recognition profile and dictionary, allowing the speech recognition rate to be substantially increased. To ensure ongoing improvement in recognition rate, WinScribe also processes the completed document to automatically add unknown words and phrases to the dictionary.

Transcription/Secretarial staff don't need to transcribe the document, but instead, proof read the recognized text, correcting any errors as they go. They will work more productively, suffer less repetitive strain injuries and improve their turnaround of work.

## Provide flexible working options

WinScribe provides flexible front end recognition to back end server processing. Server Based Recognition is carried out

after the author has completed the dictation, while front end recognition is processed on each individual PC, so the author can view and edit the recognized text as they dictate. These solutions can be deployed in a flexible way to meet individual requirements.

## Reduce formatting time

With WinScribe's optional Text Processing module for Server Based Recognition, the recognized text can even be pre-formatted prior to proof reading to further enhance productivity. Recognized text is scanned by the Text Processing module, to identify sections, headings, lists, missing punctuation, and even to standardize common words and phrases.

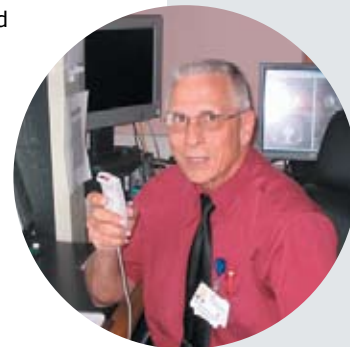
Text processing eliminates the need for tedious and repetitive formatting, correction or standardization of grammar, and even reorganizing of sections to conform to company standards.

## Speak your language

General vocabularies are available in many languages including:

- US English
- UK English
- Australian English
- Indian English
- SE Asian English
- German
- Spanish
- French
- Italian
- Dutch

A number of specialist vocabularies are also available.



## BENEFITS

- Faster document turnaround
- Higher Transcriptionist/ Secretarial productivity
- Lower skill levels required of Transcriptionist/ Secretarial staff

## THE RESULTS

- Cost savings
- Improved employee satisfaction
- Improved service quality

**Text to Audio Synchronization**

Synchronization means that words in the text file are linked to words in the audio file, enabling features such as the following:

- Each word is highlighted in the text, as that word is played back on the audio file.
- To jump to a specific place in the audio file, you can click the required place in the text.
- To play back just a segment of the audio file, simply highlight the required section of the text, and press Play.

**Acoustic Models**

To provide optimum speech recognition, WinScribe starts with an acoustic model that best represents how an author speaks (for example, a US English Radiology Model). This model is then refined for each individual author, using context and acoustic adaptation. The author can add, train, and manage a personal dictionary to continually improve recognition rates.

**Context and Acoustic Adaptation**

By analyzing corrected text files and comparing them to the audio files, WinScribe:

- Learns new words and how an author speaks.
- Collects statistical data to analyze the vocabulary used, and improve the author's overall results.
- Improves recognition rates.

**Macros**

Using macros, you can 'shortcut' a commonly repeated set of words, using a single word or sentence to tell WinScribe to insert the text block. For example, instead of dictating your full street address, you could set a macro to insert this when you speak the words 'street address'.

**Templates**

Corrected text can be automatically formatted using Microsoft Word templates, linked to the job type.

**Text Processing Module**

WinScribe's optional Text Processing module enables text to be formatted prior to correction. Advanced document formatting and punctuation correction is automatically done before the transcriptionist sees the file.

**Front and Back End Processing**

Both front end (client) and back end (server) speech recognition can be combined and deployed in many different scenarios to suit individual requirements.

**Front End Speech Recognition**

Processing speech recognition locally provides:

- Immediate text access and correction for 'on the spot' sign-off and printing or emailing of reports.
- Online job review and completion, even when transcriptionists are not available.
- The option to display or to hide the recognised text, so that you can choose to watch the speech recognition process, or to hide it until you wish to review it.
- The option to use the mouse, the keyboard, the toolbar, or voice commands to edit and format text as you dictate.
- The option to use speech recognition when offline, and synchronize with the server later.
- Deferred speech recognition when results need to be displayed block by block – using a simple button control.

**Server Speech Recognition**

Sending speech recognition jobs for server processing has many advantages:

- It frees up system resources for individual machines.
- It enables a central repository for housekeeping.
- Large reports can be batch worked on a server and corrected by internal or external typists, or rerouted to an author for later sign-off.
- It can have a flexible system configuration. WinScribe Speech Recognition can be installed on any size site; from a small site with a single dictation server, to a large site with multiple servers.

**Technical Features**

- 160 words per minute recognition rate.
- Scalable to over 120 million lines of recognized text per author.
- Personal dictionaries for customizable usage
- Multilingual use of profiles and dictionaries.
- Over 300,000 active words in the dictionary for unprecedented flexibility.
- Personal dictionaries for customizable usage

**Server Speech Recognition**

