

Custom Speech USA™ Case Studies Dragon Server-Based Speech Recognition Add-On for Medical Clinic

Background

Multispecialty medical clinic needed server-based speech recognition as add-on to DVI dictation and transcription

Case Study

Vendor/Client

Western Office Equipment/Billings Clinic, Billings, Montana

Overview

Billings Clinic includes a multispecialty group practice with over 200 physicians and nonphysician providers, with a structure similar to that of the Mayo Clinic. Over several months the clinic extensively evaluated SpeechServers™ for Dragon onsite as a back-end add-on to their preexisting DVI digital dictation and transcription system. The server-generated speech recognition text is edited using the SpeechMax™ HTML text editor and speech processor. The transcriptionist navigates the session file using an off-the-shelf standard, three-position transcriptionist USB foot control. This enables the transcriptionist to check accuracy by listening to dictation audio while highlighting text.

Components

- SpeechProfessional™ software suite
- Dragon NaturallySpeaking Medical 9.x dictation runtimes

Installation

SpeechProfessional™ includes SpeechMax™ HTML session file editor, SpeechServers™, acWAVE™ audio conversion, other dictation and transcription utilities, and Command!™ workflow manager. Computers for server-based speech recognition with Dragon NaturallySpeaking were configured in the Crown Point office and sent to Billings for installation and testing. Dictation audio captured by DVI system is delivered to an interface that transfers these files to an “authors” folder on a Windows computer monitored by Command!™ File Monitor. Command!™ Job Processor creates a transcription job for each audio file. The workflow (1) processes them with SpeechServers™ (Dragon) using the Dragon 9.x runtime, (2) outputs proprietary session files (.ses), optional Dragon session files (.dra), and/or plain text (.txt) files, and (3) places output in a folder for the interface pickup for delivery to the DVI system. Editing is done using SpeechMax™. Custom workflow scripting for the back-end, Windows-based workflow was provided by Custom Speech USA.

Benefits

- Custom integration of back-end, “add-on” with preexisting DVI dictation system
- Time-savings with server-based speech recognition and automated training
- Rapid edit with session file editor using foot control to playback audio while viewing text

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We teach computers how to listen®

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