

Custom Speech USA™ Case Studies Speech Recognition for Free Standing Radiology Imaging Center

Background

Radiologist at imaging center wanted speech recognition and automated workflow with bar code scanner.

Case Study

Vendor/Client

Custom Speech USA, Inc. for imaging center located outside of New York City

Overview

Previously, the radiologist had dictated MRI reports that were transcribed by a transcriptionist. He had previously unsuccessfully attempted to implement speech recognition using a different vendor. In the first phase of the update, a workflow was created where the dictating physician would dictate into a Word document with speech recognition using Dragon NaturallySpeaking Professional at home or in the office using his laptop computer. After the dictation was completed, it would be transferred by email to the office for printing or archive. In the second phase, scripts were created that pulled patient demographics from the imaging center MediSoft Network Professional database into the Command!™ database. Bar code labels were created for patient jackets using an off-the-shelf bar code labeler. The dictating physician scanned the patient bar code before starting a dictation job. This populated his Word dictation form with patient name, medical record number, date of birth, and referring physician. The physician then dictated into the document as before using Dragon NaturallySpeaking. After the updates, the physician commented that he was saving 10-15 minutes per dictation compared to his previous system. Client later updated to Command!™ Web Transfer Service with web services.

Components

- Command!™ Professional x 1
- Command!™ Workstation x 1
- Dragon NaturallySpeaking Professional v. 7
- SpeechScape™ Radiology Language Model
- Windows XP Pro x 2
- Microsoft Word
- Wasp Bar Code Labeler and Light Pen Scanner x 1

Installation

Phase one installation was handled with remote access software, telephone, and onsite visit. The second phase was performed entirely with remote access software and telephone.

Benefits

- Speech recognition and automated workflow with bar code scanning
- Integration with preexisting software and inexpensive off-the-shelf products
- Minimal cost using inexpensive Command!™ scripting process

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We teach computers how to listen®

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