



Case Study

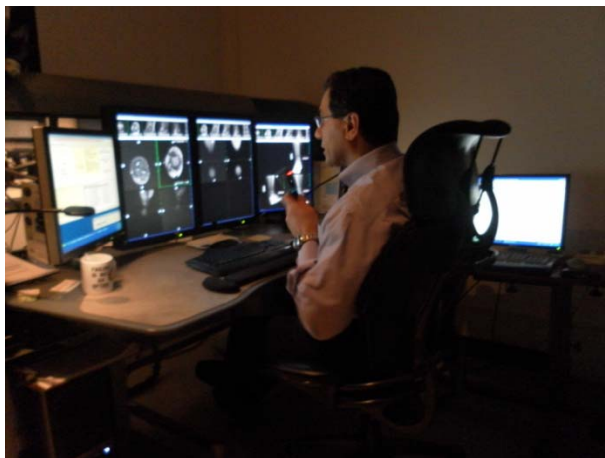
Integrated Modular Systems Inc and Grundig Business Systems at Saint Anthony Hospital, Chicago, IL



Saint Anthony Hospital is a non-profit, 151-bed community teaching hospital dedicated to providing medical care, social services, and community outreach to the near southwest side communities of Chicago, IL. With 32,000 Emergency Department visits, 9,000 admissions, and 2,400 births per year at the hospital, their excellent patient care is expedited by the rapid turnaround time of reports on patient x-ray images to attending physicians every day of the year. The Medical Imaging Department has always provided patients with access to the most advanced x-ray imaging technology, and has moved to become completely digital.

When the dictation system being used by the radiologists had reached the end of its expected lifetime, and needed replacement, Mark Jundanian, M.D., Chief Radiologist and Chairman of the Medical Imaging Department knew that it was time for an integrated, interoperable, and interactive patient report generation system. He talked to John Mazur, President of Integrated Modular Systems, Inc. (IMSI) about modifying the IMSI RIS. IMSI had installed the IMSI RIS at Saint Anthony Hospital some fifteen (15) years previously. Four (4) years ago, the IMSI RIS was upgraded to a cloud hosted web accessible system with a complete set of interfaces to all other hospital systems.

Dr. Jundanian had an educated “wish list” of modifications which would transform the entire report generation process. During this past year, working with Dr. Jundanian’s requirements and feedback, IMSI created imsiVOICE-Interactive™ and OneList to speed report turnaround time back to the referring physicians and hospital nursing stations, ushering in the next generation of medical reporting.



imsiVOICE-Interactive with OneList, a unified worklist, is not just fully integrated and interoperable with the RIS, but interactive with the PACS worklist, providing “single click” activation by the Digta CordEx wireless microphone to initiate the interactive interface to the IMSI cloud hosted RIS and imsiPACS, or other vendors’ RIS and PACS products, coordinating the radiologist with the PACS worklist, while launching windows for medical images, order information, and previous history, all at once. The IDOM RIS tracks what images are being displayed to the radiologist, using Third Eye™ technology developed by IMSI. This creates a paperless environment for the radiologists.

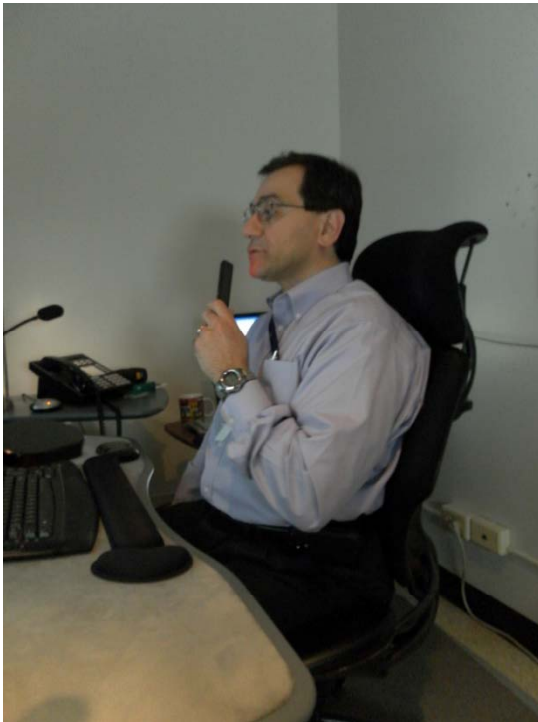
“imsiVoice-Interactive has taken our reading room paperless, and the effect has been more dramatic than we ever expected. Our radiologists are now finishing their case loads as much as an hour and half earlier every day. The radiologists love the system and particularly that they are able to get all of this functionality with the freedom of a wireless microphone, and the Grundig software gives them all the features they demand”, observed Dr. Jundanian.

Your Complete Medical Imaging Information Systems Solutions Provider

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Reports may be produced using voice recognition, such as Dragon Naturally Speaking®, or transcription accessing hosted voice files, and automatically transmitted to the RIS, the HIS, the EMR, and to fax and email services. Also featured is the Grundig Business Systems Digta CordEx™ wireless professional microphone. The Digta CordEx™ allows users to move freely within a 25-foot radius. A visual and audible warning is given when a user moves out of range, while the dictation is simultaneously saved in the device's temporary memory, ensuring that the physician will not lose a single moment of their dictation if they move out of range.

Critical success factors for this solution include:

- Paperless solution
- Grundig Business Systems CordEx™ microphone features support imsiVOICE-Interactive™ and OneList™
- ImageWebGate® hosted RIS
- Total integration with HIS, PACS with HL7 and DICOM Interfaces

In conclusion, the report turnaround time in the Medical Imaging Department at Saint Anthony Hospital has been significantly improved through the implementation of imsiVOICE-Interactive™ with OneList™, creating a “paperless environment”. This has improved patient care, made the radiologists more efficient, and saved hospital resources.

Background

Grundig Business Systems (GBS), a leading provider of digital dictation hardware, provides development kits which allow clients to integrate GBS hardware and software into third party software platforms. These development kits allow GBS devices to provide high quality voice input for dictation creation, speech recognition, and workstation command and control. With the movement to Electronic Health Records (EHR) within the United States, clients are turning to GBS for voice processing solutions. Find out more about GBS on the internet at www.Grundig-gbs.com

Integrated Modular Systems Inc. (IMSI) is a leading integrator of medical imaging and healthcare technology solutions. For over 30 years IMSI has been engineering, installing, customizing and supporting healthcare technology solutions to meet the individual needs of clients. With expertise in web-based products, HL7, and DICOM conformance, IMSI offers a continuum of PACS and teleradiology products and services. IMSI works with corporate partners in the industry to design and bring to market the most technologically advanced solutions. IMSI concentrates on the needs of clients, so they can stay focused on their patients' diagnostic images. Find out more about IMSI on the internet at www.imsimed.com.



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