



SpeechMagic™

Features and Specifications

PRODUCT DESCRIPTION

SpeechMagic is an information capturing platform which enables healthcare IT system providers to deliver seamlessly integrated digital dictation and speech recognition capabilities to hospitals, clinics, transcription companies and group practices.

Because we understand how much your work and patient safety depend on accurate information, we always strive to find ways to facilitate every type of reporting use case. SpeechMagic incorporates various modules, all of which reflect our sole motivation and goal: providing you with professional speech recognition technology that speeds up your medical reporting while offering high flexibility to customize it to your individual needs.

Proven

Global network of more than 200 integration partners deployed at more than 8,000 sites in 63 nations.

Platform

SpeechMagic is seamlessly integrated into information systems (IS) or reporting solutions, enabling the end user to efficiently capture information within their familiar working environment.

Industrial grade

SpeechMagic captures dictated information and automatically generates formatted and structured medical information—whether for a small practice, a large hospital, or a group of hospitals.

Flexible workflows

SpeechMagic allows the user to choose their preferred and most efficient workflow to capture medical information—switch between frontend and backend recognition when required or desired or use both.

Across the world

SpeechMagic supports the largest language portfolio in the industry with 25 recognition languages and provides 150 specialized recognition vocabularies (ConTexts).

KEY BENEFITS FOR USERS

Profitable

Speech recognition implementations are described as very profitable IT projects, allowing an increase in productivity by speeding up turnaround time and allowing the reallocation of the budget money saved.

Flexible

You can change the way of working anytime. Decide whether you want to have the recognition done in the background (backend), want to see the recognized text immediately and directly edit yourself (frontend) or, after dictating, send the dictation to a transcriptionist (deferred frontend).

Immediate and continuous adaptation

SpeechMagic automatically and continuously adapts to the way you dictate based on your final reports.

Medical formatting

SpeechMagic transcribes dosages, measurements, etc. into a standardized format; SpeechMagic ensures full compliance to medical standards (such as AAMT, JCAHO in the US).

Optional Initial Training

Training of the voice user profile is not required. We recommend initial training for non-native speakers.

powered by
SpeechMagic™

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Increased productivity

Using SpeechMagic enables end users to create reports more efficiently by offering the possibility to dictate directly into templates, using Auto-texts, fields and commands. SpeechMagic increases the productivity of medical transcription, which results in reduced backlogs and faster turnaround time. Accurate information is available on time, making it possible for doctors to increase quality of care.

For more information dial **888 SPEAK 50** or contact info.speechmagic@nuance.com

SYSTEM REQUIREMENTS

Operating system

One of the following operating systems (latest service pack is mandatory): Microsoft Windows 2000 Server, 2000 Workstation, XP Professional x86, XP Professional x64 (32-bit emulation mode), Server2003 x86, Server2003 x64 (32-bit emulation mode), Vista Enterprise x86, Vista Enterprise x64 (32-bit emulation mode), Server 2008 x86, Server 2008 x64 (32-bit emulation mode)

Database environment

One of the following database environments is required (latest service pack is mandatory): Microsoft SQL Server 2000, Microsoft SQL Server 2005, Oracle 9i, Oracle 10g Release 1, Oracle 10g Release 2

Word processor

One of the following word processors for online recognition and correction (latest service pack is mandatory): Microsoft Office 2000, 2002, 2003, 2007

Other software

One or more SpeechMagic Language Package.

One or more SpeechMagic ConText.

Note: Contact your supplier for the list of currently available Language Packages and ConTexts.

An Internet browser: Microsoft Internet Explorer 6.0 and higher.

Recommended hardware requirements

Workstations for digital dictation and correction: CPU Pentium III 800 MHz, 256 MB
Workstations for online recognition (InterActive): CPU Pentium IV 2 GHz, RAM 1 GB
Workstation for online recognition (CSPAPI): CPU Pentium IV 1.7 GHz, RAM 512 MB

Backend Recognition Task (with Acoustic Adaptation)

CPU Pentium IV 1.7 GHz, RAM 512 MB (up to 15 users), 1 GB (up to 50 users)

ConText Adaptation Task

CPU Pentium IV 1.7 GHz, RAM 512 MB (up to 15 users), 1 GB (up to 50 users)

Purge Task

CPU Pentium IV 1.7 GHz, RAM 512 MB (up to 15 users), 1 GB (up to 50 users)

File Server – hard disk space

1 GB + 20 MB per user + 70 MB per language + 50 MB per ConText + 10 MB for each hour of dictation



SpeechMagic is Citrix Ready™, allowing for full-scale speech recognition within a thin-client infrastructure: numerous authors can dictate simultaneously anywhere within the Citrix network in both frontend or backend recognition mode. Hospitals with an existing Citrix network can now easily and without compromise roll-out speech recognition.

KEY BENEFITS FOR ADMINISTRATORS

Supports multiple input devices

SpeechMagic processes sound files recorded via telephone, microphone, mobile digital devices, PDA, MCA, tablet PC, etc.

SpeechMagic for roaming users

With SpeechMagic integrated into the hospital IT system, dictation, recognition and correction are independent of location, across a Local Area Network (LAN), Wide Area Network (WAN), the Internet, or disconnected. The system is optimized to ensure fast access and minimize network traffic.

Scalable

With a network-based, distributed architecture, central, low-effort administration and maintenance, SpeechMagic scales up to more than 100,000 users at one site.

Safe

SpeechMagic ensures fail safety and data integrity for reliable, robust and secure system operation.

Central

SpeechMagic allows efficient, central system administration and supports client/server-based architecture, ensuring that authors are not restricted to one workstation. Vocabularies can be shared between authors and cost-effectively administered centrally.

Audio compression

SpeechMagic ensures low network bandwidth requirements by offering optimal audio compression (19 kBit/s).

Full support of multi-processor machines

SpeechMagic takes full advantage of multi-processor platforms to save data center space for large deployments. SpeechMagic components can also be used in parallel with other resource-intensive applications.

Intelligent job routing

SpeechMagic has the tools to decide per report whether correction or transcription is more efficient in order to maximize overall productivity.

Management reporting

SpeechMagic calculates productivity-based performance parameters for each report to quantify your benefits and support ROI calculations.