



PowerScribe® Speech Recognition SDK

Embed Dictation and Speech Recognition Technology
into Your Clinical Applications

Dictaphone® PowerScribe SDK 3.0

The Dictaphone PowerScribe SDK 3.0 is an easy-to-use software development kit for embedding Dictaphone's industry leading speech recognition technology as a key capability in your clinical software. Designed for tight integration with RIS, PACS, and Laboratory/Pathology Information Systems, PowerScribe SDK supports flexible dictation workflow. Its intelligent structured documentation speeds report creation and personalizes the look and feel of each provider's reports. Developers embed medical dictation and speech recognition into your applications by exposing a set of rich Application Programming Interfaces (API) to Dictaphone technology.

SDK Features

Flexible Dictation Workflow. PowerScribe SDK 3.0 accommodates a wide range of provider workflows, supporting multiple dictation modalities including:

- "Front-end," provider-driven dictation and speech recognition
- "Back-end," speech-assisted transcription
- Digital dictation, traditional transcription workflow

Intelligent Structured Documentation. PowerScribe SDK 3.0 allows for customization of report structure via:

- Enabling definition/customization of section headings and subsections
- Ability to create a scorecard checklist of each report section, each of which can be set as mandatory for signature
- Templated text blocks with bracketed fill-in fields

Post Processing. A proprietary Dictaphone technology, Post Processing customizes the desired look and feel of reports. Customization can be site or user specific depending on your organization's needs.

Technical Specifications

Programming Languages

PowerScribe SDK 3.0 provides a COM interface. Any programming language that supports COM objects can use this SDK.

Supported Operating Systems

- Microsoft® Vista
- Microsoft Windows® 2000
- Microsoft Windows XP

Database

- Microsoft SQL Server 2005

Supported Peripherals

- Dictaphone USB PowerMic or USB PowerMic® II Microphone
- Dictaphone USB PowerMic or USB PowerMic II with Integrated Barcode Scanner
- PowerMic now supported on Microsoft Vista and on 64-bit Windows XP
- Dictaphone Foot Pedal
- Array microphone
- Bluetooth microphone

What Comes With It

- Dragon Speech Recognition Technology
- SDK Development Tools
- SDK Programmer's Guide
- Sample Applications
- System Administration Utility for Developers

For more information please visit Dictaphone Healthcare Solutions at www.nuance.com/dictaphone or call 888-350-4836.

Text Source Identification. PowerScribe SDK 3.0 includes a color-coded method which identifies the source of text created, whether the text is dictated, typed, or templated, for faster review and editing.

Comprehensive Specialty Library. PowerScribe SDK 3.0 comes with a comprehensive library of medical languages. These language models, built using Dictaphone's patented technologies, provide high-levels of accuracy and performance. Medical specialty language models include:

- Radiology
- Internal Medicine
- Orthopedics
- Pediatrics
- Cardiology
- Acute Care
- Pathology
- General Medicine
- Mental Health
- Emergency Medicine
- Oncology

Expanded Language Support. PowerScribe SDK 3.0 includes both US English accent and Indian English accent models.

More Natural Dictation. Dictaphone's speech technology allows the user to dictate in a manner similar to traditional dictation. The system instantly converts the user's speech into text on-screen and can be edited by speech or keyboard.

Other Natural Dictation Features

- Dictate anywhere:** Allows users to click in any window and dictate for applications built using Microsoft Edit box, NET Edit controls, and Microsoft Word.
- Audio and text:** Can be played back in synchronization.
- Numbers mode:** Allows faster, more accurate data entry.
- Spell mode:** Enables names and addresses to be more quickly and accurately dictated.
- Audio parsing:** The API can now edit and process individual audio sections which can be split or distributed in different report sections.

Dramatically Higher Accuracy. PowerScribe SDK 3.0 has significantly higher accuracy compared to earlier versions. Users can now acoustically train specific punctuation marks and commands.

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Improved Self-Editing. PowerScribe SDK 3.0 can display a correction suggestions window, allowing users to correct occasional misrecognition by choosing the right word from a list or saying the word again if not displayed. Auto-punctuation can be performed automatically if a user prefers to not dictate commas, semicolons, colons, or periods.

Expanded Microphone Input. Supports acoustical models for Bluetooth and Array microphones. User profiles can include one or more acoustical models allowing flexibility in microphone use. Dictaphone PowerMic works seamlessly with host applications, and microphone buttons can be customized to fit the precise needs of your application.

Enhanced Continuous Learning. Dictaphone speech recognition technology allows users to quickly train the system to speaking patterns and pronunciation. Accuracy continuously improves as Dictaphone technology analyzes previously-dictated reports.

Flexible Vocabulary. Allows providers to add both site and user specific data to the individual user or facility-wide language models.

Greater Control Over Speech Shortcuts. Speech shortcuts can now be grouped by specific categories. They can be defined with special formatting including font size, typeface, bold, underline, italic, and colored font.

Audio Compression. The PowerScribe SDK incorporates advanced audio compression to minimize effects of bandwidth-limited environments.

Voice Command & Control. The PowerScribe SDK allows programmers to create specific grammars that can voice enable the entire application. Spoken commands can be used to drive menus, checkboxes, and dialogue boxes.

Centralized Administration. Programmers can embed administrative functions such as adding and maintaining users into their administration application, preventing duplicate data entry.

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