



DRAGON NATURALLYSPEAKING 12 SDK CLIENT EDITION

Dragon NaturallySpeaking 12 SDK Client Edition (DSC) includes everything needed to add cutting-edge speech recognition technology to any Windows-based application. The tools, libraries, and ActiveX components of the SDK make it possible to integrate the speech recognition capabilities of Dragon NaturallySpeaking into any Windows application without using the Dragon NaturallySpeaking user interface.

Developers can quickly and easily create speech-aware applications “from scratch” or add speech recognition to existing applications. The Dragon NaturallySpeaking speech engine allows end users to enter, edit and correct text by voice, as well as command and control the application by voice.

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SPEECH-ENABLE APPLICATIONS TO INCREASE SPEED AND PRODUCTIVITY

Amazing Dictation Accuracy

Enable continuous dictation of up to 160 words-per-minute into nearly any Windows-based application with up to 99% accuracy. Developers can customize specific requirements and leverage the full feature set of Dragon, including voice correction, formatting, and dictation playback for fast editing, as well as create new user profiles (with or without end user interaction) using Dragon’s new user wizard.

Vocabulary

Beyond the extensive Dragon vocabulary language model and files that come standard with DSC, developers can create custom vocabularies. GetCustomWords is a command-line utility that retrieves a list of custom words from a user’s vocabulary and stores the words in a file, facilitating the creation of a custom vocabulary for users. DSC supports English (including variants for US, UK, Australian, Southeast Asian and Indian), German, French, Italian, Spanish and Dutch. Other vocabularies provided in DSC are General Vocabulary, Empty Dictation (except in Australian, Southeast Asian and Indian), and Commands Only (available in US and UK English only).

Microphone

The Dragon NaturallySpeaking ActiveX controls include a microphone button object (DgnMicBtn) that provides programmatic access to the microphone and a microphone button (with the VU meter) that developers can display in the application’s user interface. New in Dragon 12, developers can integrate user profile creation for an iPhone®, iPod® touch (4th gen), iPad® or compatible Android™ device as a remote microphone or recorder for greater freedom and flexibility.

Custom Voice Commands for Specific Applications

Voice commands enable end users to perform actions by speaking into the microphone rather than (or in addition to) using a keyboard or mouse. Developers can code their applications to respond appropriately once a specified sequence or pattern of words is recognized as a command using the DgnVoiceCmd object, making it easy to create a short list of literal commands.

Display Notifications

New in Dragon 12, developers have the option to display a status bar message to let users know what mode (i.e. dictation, spelling, numbers, command, etc.) is currently active. Also new to Dragon 12 is the SDK’s ability to notify an application if the “spell dialog” box is open or closed.

Text-To-Speech

Applications can output text in the form of speech using a voice text object and the text-to-speech engine provided with Dragon NaturallySpeaking, or any other SAPI4-compliant TTS engine the developer provides.





DRAGON NATURALLY SPEAKING 12 DATASHEET

DEVELOPMENT ENVIRONMENTS

The Dragon NaturallySpeaking SDK Client Edition (DSC) provides developers with tools, including the Dragon APIs, to integrate speech recognition capabilities into applications. When programming in the DSC environment, developers access Dragon's ActiveX controls using the Dragon APIs. Developers can program in any language that ActiveX control supports. However, officially supported environments include Visual Basic, C# and Visual C++.

Comprehensive sample code and detailed documentation is available. In addition, the Dragon NaturallySpeaking Developer Support Program offers:

- Direct answers to development questions from Dragon Developer Support engineers via Web form or telephone
- Access to Dragon NaturallySpeaking SDK TechNotes and FAQs
- Access to software updates as they become available for in-house testing and prototyping

System Requirements for Dragon SDK Client Edition

During the installation process, the software checks that your system meets the following requirements. If they are not met, Dragon will not be installed.

- **RAM:** We recommend 2 GB for 32-bit Windows XP, Windows Vista, Windows 7, Windows 8 and Windows Server 2008, 4 GB for 64-bit Windows 7, Windows 8, Windows Server 2008, and Windows Server 2012. (Minimum: 1 GB for Windows XP and Windows Vista, 2 GB for Windows 7, Windows 8, Windows Server 2008, and Windows Server 2012)
- **CPU:** We recommend 2.2 GHz Intel® dual core or equivalent AMD processor. (Minimum: 1 GHz Intel Pentium® or equivalent AMD processor or 1.66 GHz Intel Atom® processor). Faster processors yield faster performance.
- **IMPORTANT: SSE2 instruction set is required**
- **Processor Cache:** We recommend 2 MB L2 cache. (Minimum: 512 KB)
- **Free hard disk space:** 5 GB
- **Supported Operating Systems**
 - Windows 8, 32-bit and 64-bit
 - Windows 7 SP1, 32-bit and 64-bit
 - Windows Vista SP2, 32-bit and 64-bit
 - Windows XP SP3, 32-bit only
 - Windows Server 2008 SP2, 32-bit and 64-bit
 - Windows Server 2008 R2 SP2, 64-bit
 - Windows Server 2012 Standard Edition, 64-bit
- Internet Explorer 7 or higher to view the software's Online Help (free download at <http://www.microsoft.com>)
- A sound card supporting 16-bit recording
- A DVD-ROM drive for installation from disk
- .Net Framework and MSXML 4.0 SP2 are not installed as part of the SDK installer. The pre-requisites are assumed to be pre-installed on the developer machines. If needed, they are provided on the SDK installation disk on DVD1 under the ISetupPrerequisites folder.
- A Nuance-approved noise-canceling microphone. See listings and details at support.nuance.com (includes USB adapters and digital voice recorders)

This edition of Dragon does not support dictation directly into Electronic Medical Record (EMR) Systems. For EMR support, please use Dragon Medical Edition.

IMPROVED AUDIO FILE TRANSCRIPTION AND CLOSED CAPTIONING

Easily Transcribe Audio Files

Application developers can transcribe audio files into application windows or transcribe audio files in text and document files. DSC also includes the Audio Transcribe Folder Agent, a GUI tool that automatically transcribes recorded voice from audio files into user-specified directories. This includes .wav, .wma, and .mp3 audio files, as well as .dss and .ds2 file formats.

NEW! Enhanced Closed Captioning

In Dragon 12, new and improved real-time formatting of closed captioning text is available for English, and introduced for Italian, French, German, Dutch and Spanish.

INCLUDES EVERYTHING NEEDED FOR RAPID DEPLOYMENT

SDK Runtime

Developers can install the DSC SDK runtime in a network environment, pushing the software application out to client computers without having to install it separately on each client system. The DSC includes a native Windows installer (MSI) that lets developers both install across a network to multiple client machines and do customized installations. The installation administrator creates an image of the installation program on the server, and then configures the server to automatically push the application onto the client systems. Network installations can also be configured to modify, repair or remove an existing installation.

Command-line and GUI Tools

DSC includes a Data Distribution tool and an NSAdmin tool that enables developers to deploy new words, customized vocabularies, or commands, and make them available to all user profiles on a particular Dragon installation.

