Dragon NaturallySpeaking®
Version 10

Philips 9600 DPM Setup Guide for Dragon

Philips 9600 DPM Setup Guide (revision 1.1)

for **Dragon NaturallySpeaking® *Version 10*** as released in North America

The material in this guide applies to Professional and Legal editions of Dragon NaturallySpeaking, the Philips 9600 DPM device, and SpeechExec Pro Dictate software.

We welcome comments about this guide and all aspects of Dragon documentation including the User Guide, Tutorial, Tip of the Day, Help menu, Performance Assistant, "What Can I Say" window... Please email the documentation team at **dragondoc@nuance.com**.

Information in this document is subject to change. The **Knowledge Base** at **www.support.nuance.com** contains the latest technical information on the Dragon product family, including versions predating Version 10.

The **Support** area of the Nuance website also includes recommended settings for additional microphones, digital voice recorders, tablet PCs, and other **compatible hardware** devices tested by Nuance and approved for use with Dragon.

This Guide's Goals

Welcome to continuous speech recognition anywhere! Dragon NaturallySpeaking combined with Digital Recorders lets you *speak naturally* to create documents on the go.

This Guide aims to provide an *efficient introduction*, presenting what an end-user should be aware of in order to have Dragon NaturallySpeaking transcribe from the Philips 9600 recorder with the highest level of accuracy – and convenience.

Before following the steps in this guide please consult your Philips 9600 DPM documentation for instructions on how to install the Philips SpeechExec Pro Dictate software. The instructions in this guide will cover the following topics:

- Setting your options for the Philips 9600 Digital Recorder to work with Dragon.

- Creating a Digital Recorder User Profile

- Adding a Digital Recorder "Source" to an existing User Profile

- How to transcribe a recording with your Philips 9600 DPM

Setting your options for the Philips 9600 Digital Recorder to work with Dragon.
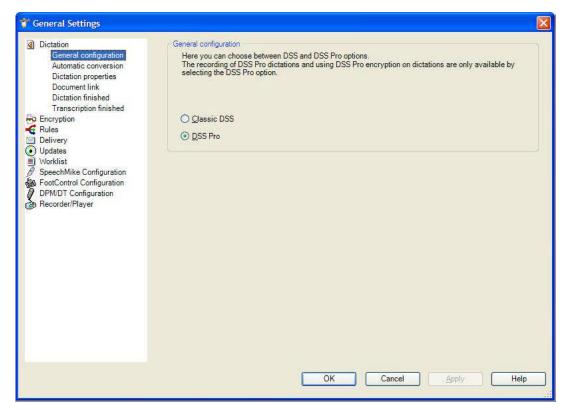
Dragon NaturallySpeaking supports handheld digital recorders (and other PDAs that record in ".wav", ".wma", ".dss" and ".mp3" format) for deferred transcription.

This requires installing the digital recorder's software on your computer, and then, within Dragon, taking a few steps so that the software will recognize the Digital Recorder device as a "dictation source".
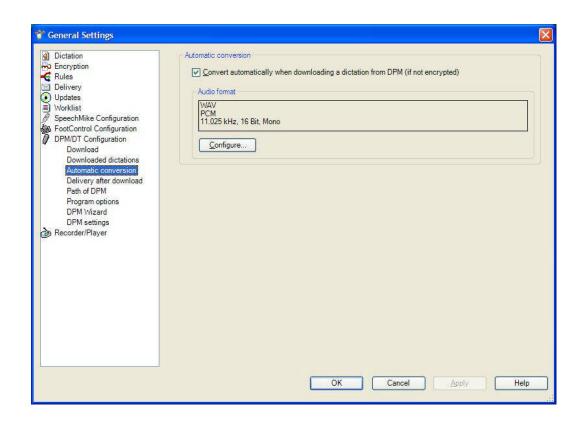
In order to gain the highest rate of accuracy possible, the sound files containing dictations should be transcribed with a user profile that uses the "Digital recorder using sound files (.wav, .mp3, .wma) on disk" as the dictation source. For instructions on creating your profile to be used with a Digital Recorder see "Enrolling Your Digital Recorder with Dragon". Instead of creating a new user profile with the Digital Recorder source, an existing user profile can have the "Digital recorder using sound files (.wav, .mp3, .wma) on disk" source added to it.

Before setting your User Profile in Dragon to work with a Digital Recorder it is recommended to make the correct setting changes to the recorder and recording software to best work with Dragon. To make these changes for the Philips 9600 follow the steps below:

Step 1: Install the Philips Speech Exec Pro Dictate Software using the documentation provided from Philips. (Please note you need transfer the license from the USB key to your computer. This can be done in the "Help" menu of the SpeechExec Pro Dictate software.)

Step 2: Launch the Philips Speech Exec Pro Dictate Software and Click "Settings" > "General Settings"

Step 3: On this dialogs left hand pane Click "Dictation" > "General Configuration" and then select "DSS Pro".

Step 4: Select "DMP/DT Configuration" > "Automatic Conversion" and check the option "Convert automatically when downloading a dictation" and then click "Configure".
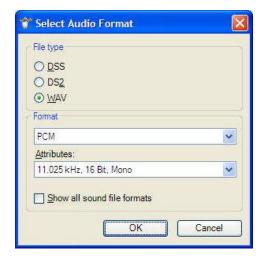

Step 5: In the "Select Audio Format" dialog, Select the following options in this dialog:

- File Type: WAV

- Format: PCM

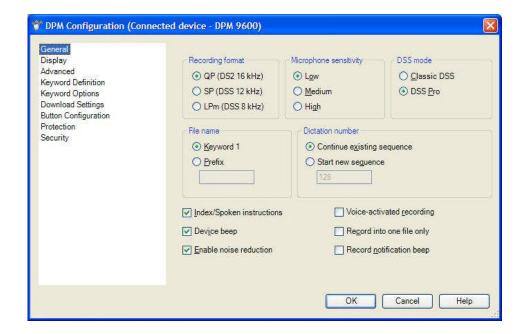- Attributes: 11.025 kHz, 16 Bit Mono

Step 6: While still in the "DMP/DT Configuration" section select "DPM setting" and then click "Start". Under the "General" section of this dialog make sure the following options are selected:

- Recording Format: QP (DS2 16kHz)

- Microphone sensitivity: Low

- DSS mode: DSS Pro

- Enable noise reduction: Checked

TIP You may also take advantage of different features in the Philips Speech Exec Pro Dictate software to automatically download the audio files when the Digital Recorder is docked in the Philips Docking Station. This can be set under the "Download" section of the "DMP/DT Configuration" section.
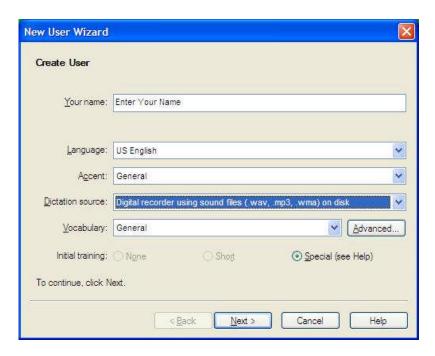
"Enrolling" your Digital Recorder within Dragon

Dragon NaturallySpeaking is *speaker-dependant* software. To recognize your speech accurately, it must have a "profile" of you, which it stores in a set of files called *user files (*often referred to as *"a User")*.

Creating a User profile is easy. The first time you launch Dragon, the program automatically brings up its *New User Wizard*, which takes you step by step through the process of creating a profile, including choosing the right options for your audio input device and "accent". After a verification of audio hardware, this wizard can presents you with text to read aloud for into your recorder—this step, called *general training*, allows Dragon to adapt its *acoustic model* to the unique way you sound.
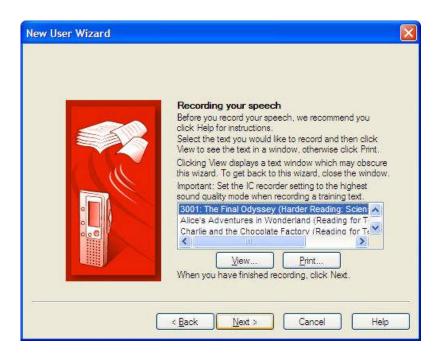
IMPORTANT For best results, it is highly recommended that you first use Dragon with a regular microphone. This allows you to see the transcription/text appear on your screen in real time. This gives you immediate feedback about how to best "Talk" to Dragon and helps you find the optimal flow and tone of voice (speech recognition software works best if you speak long phrases rather than individual words.) It is recommended to then add a new "Dictation Source" to the microphone profile for the Digital Recorder. This is explained further in the "Adding a Digital Recorder "Source" to an existing User Profile" section later in this guide.

Step 1: Launch Dragon (you can double-click its desktop icon). If Dragon has never been used before on this computer, this automatically brings up the first screen of the *New User Wizard* (otherwise, choose Manage User̲s in the Dragon toolbar's NaturallySpeaking menu, then click N̲ew.)

Step 2: Enter a name for your User profile: your first and last names, for instance.

Step 3: Version 10 US English has special *acoustic models* for a number of broad *"accents"* heard in the US (this is particularly important for natives of the UK or the Indian sub-continent). Open the drop-down list **Accent** to see their names; if unsure which one is best for you, just pick "General".

Step 4: Select the "Digital recorder using sound files (.wav, .mp3, .wma) on disk" source from the "Dictation Source" drop down.

TIP Specific Vocabularies can also be selected on this page if you have previously custom built your or you are using an industry specific version of Dragon such as the Legal edition.

Step 5: Click "Next". The New User Wizard now displays a list of possible texts to read aloud in order for Dragon to get used to how you sound via the digital recorder. Select the text you wish, and then use the "View…" button to view the text on screen or the "Print" button to print out the text.
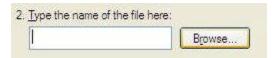

TIP When viewing the scripts, the text can be copied and pasted into a word processor. This will allow increasing the font of the text making it easier to read. Also, if you want to pause during your reading, it's a good idea to make a note of where you stopped in the document.

Step 6: Proceed through the training text by reading it into your recording device while considering the following:

- Read for a <u>minimum</u> of 15 Minutes.

- As you read this training text, do not skip long passages of text, but if you encounter a word that is difficult for you to say, don't hesitate to skip that word. If you make a mistake, just keep reading (don't say "oops" or reread the passage).

- Speak at your normal pace, clearly and **naturally.**

- The recorder's **microphone should stay at about 3 inches from the corner of your mouth.** Try not to move the recorder as you speak; touching your thumb to your jaw helps.

- Dragon is learning how you sound when you dictate; reading the entire story rather than the 15 minutes required can increase your accuracy.

TIP For best results, creating a User profile should be done in your "normal" environment, with the same background noise as when you will be dictating.

Step 7: Click "Next" on the New User Wizard dialog box, then click the "Browse" button to locate the training file. The ".WAV" file will be in the folder designated by the SpeechExec software.

TIP By default this location is in:

- Windows XP: My Documents\speechexec\a_finish\<KEY WORD WORK TYPE SELECTED ON THE DPM>".

- Vista: Documents\speechexec\a_finish\<KEY WORD WORK TYPE SELECTED ON THE DPM>".

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Step 8: Once the training file has been selected, click the "Next" button. Now, Dragon NaturallySpeaking will return the results of the Signal to Noise Ratio and the Audio quality checks (The results are not relevant other as long as the device passes.) Click the "Next" button again to start adapting the user.

Step 9: Click the "Start Adapting" button to begin adapting the user profile to the sound of the recorded speech. (Note: This process may take over an hour to complete).

Once Dragon has finished adapting from your acoustic sample, the New User Wizard will indicate that the process is complete and the new recorder profile is ready for dictation

TIP Dragon will then offer to optimize the *Vocabulary*, presenting a screen entitled "**Adapt to your writing style**". Feel free to **skip** this simplified customization; as soon as your profile is created, you can use the **powerful, targeted customization tools** in the Accuracy Center. See the Dragon Help menu for more information on "Improving Your Accuracy".

Adding a Digital Recorder "Source" to an existing User Profile

Instead of creating a new user profile with the Digital Recorder source, an existing user profile can have the "Digital recorder using sound files (.wav, .mp3, .wma) on disk" source added to it. In order to do this, use the following steps:

TIP   This is the preferred method of adding support for a Digital Recorder if you already have a User Profile created for a different source. i.e. Mic-in, USB Headset, Bluetooth. By adding a new source to an existing User Profile, vocabularies and commands will be shared between the two sources. If a new profile is created that uses the Digital Recorder source, the user profile will use a separate acoustic model than any existing user profiles, and vocabularies and commands won't be shared between multiples user profiles.

Step 1: Click "NaturallySpeaking > Open User

Step 2: Select the existing user profile to add the new source to.

Step 3: Click "Source > New".

Step 4: Select the "Digital recorder using sound files (.wav, .mp3, .wma) on disk" from the Dictation Source drop down list and then click "OK".

Acoustic Training will have to be completed for the new dictation source. Once the new source is opened, the following message will appear: "Recorder Training has not yet been successfully completed for this user and dictation source. We will give you the opportunity now." To continue with the steps on training the source, please start with step 5 n the "Creating a Digital Recorder User Profile" section of this guide.

Transcribing a Recording from your Philips 9600 DPM

Using a Digital Voice Recorder

Follow these basic guidelines when dictating into your recorder for optimal recognition results:

- Always hold the recorder at the same distance from your mouth. Some users choose to rest the device on their jaw for the most consistent results.

- For better quality recordings, consider connecting your headset microphone to your device rather than talking into the built-in microphone. (The headset microphone often offers superior noise-cancelling capabilities so that Dragon can focus on your voice rather than potential background noise.)

- Use the Restricted Command Set in recorded dictation to best control the formatting and to make corrections while dictating. For example:

  SCRATCH THAT - a command that deletes the previous utterance. An utterance is everything you said with a single breath.

  RESUME WITH - a command that allows you to back up if you misspeak or change your mind after dictating a phrase. For example, if you dictate "the suspect fled on foot east down Pleasant Street," you can change the street name by dictating "**RESUME WITH** the suspect fled on foot east down Prospect Street."

- Use different modes while recording to suit your specific dictation needs. Dragon NaturallySpeaking transcribes in Normal Mode by default. However, there are instances where you may find it helpful to switch modes. Dictating a series of numbers? Switch to Numbers mode. Not sure how to spell a specific name or technical term? Try using Spell Mode.
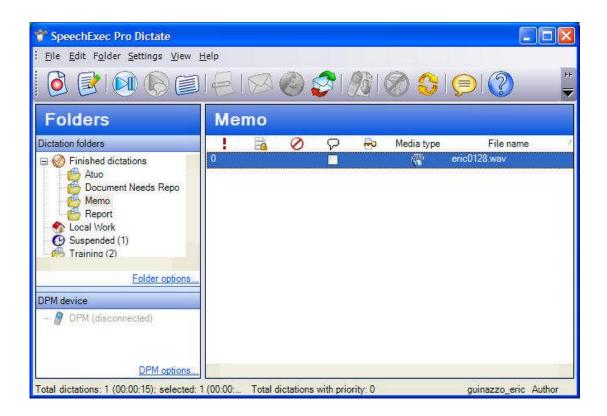
[Mode-Name] MODE ON or **START [Mode-Name] MODE** - Turn a mode on.

[Mode-Name] MODE OFF or **STOP [Mode-Name] MODE** - Turn a mode off.

SWITCH TO [Mode -Name] MODE - To switch modes.

Transferring your Recorded Audio

You've dictated notes into your Digital Recorder and are ready to transfer the audio file to your home or office PC. You need to physically connect your recorder to your PC to perform the file transfer. This can be done by docking your Philips 9600 DPM into the provided Philips Docking Station. From here use the SpeechExec Pro Dictate Software to transfer your dictation from the DPM device to a local folder listed in the left folder pane.
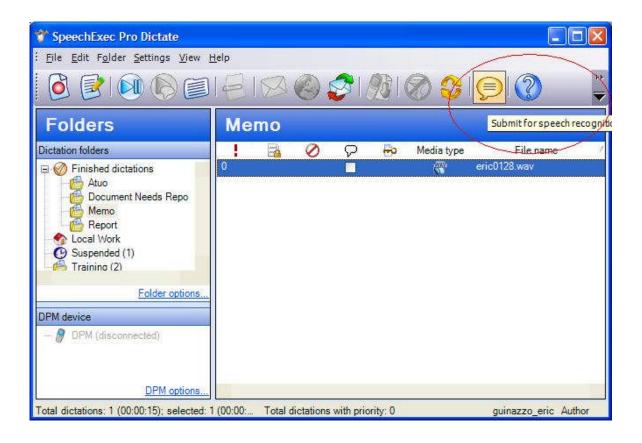

TIP You may also take advantage of different features in the Philips Speech Exec Pro Dictate software to automatically download the audio files when the Digital Recorder is docked in the Philips Docking Station. This can be set under the "Download" section of the "DMP/DT Configuration" section.

Transcribing your Recorded Audio to Text

Now that your audio files have been transferred to your PC, follow the steps bellow to perform the transcription: (Make sure to have Dragon loaded with your Digital Recorder Source Profile loaded. To change profiles in Dragon select "NaturallySpeaking > Open User".)

Step 1: Launch the SpeechExec Pro Dictate software and select the folder where you desired audio files resides in the "Dictation Folders" pane on the left side.

Step 2: Select the desired audio file by Clicking it in the right side pane of the SpeechExec Pro Dictate software.

Step 3: Click the "Submit for Speech Recognition" tool bar button to send the Audio file to Dragon NaturallySpeaking for transcription.
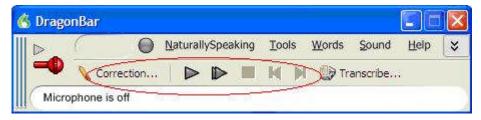
Step 4: Select the "DragonPad Window" or "A selected window" from the Transcription Options dialog and Click "Transcribe". Once transcription begins make sure to not touch the Keyboard or Mouse until the transcription is complete.

TIP You can either send the transcribed text to DragonPad, Dragon's word processing software, or to a Selected Window. If you choose Selected Window, Dragon will automatically insert the transcribed text wherever you place the blinking cursor in an active window on your computer screen. This will enable you to insert the transcribed text directly into a Microsoft Word document or even a specific field within virtually any Windows-based application. You can even insert the transcribed text directly into a field on a custom form or report. This feature is particularly useful for quickly inserting dictated notes into field report templates.

Reviewing and Editing Transcribed Text

Once your text has been transcribed from the audio file into your selected application, review the text for accuracy. Select the text you want to correct, and then use the buttons on the Extras toolbar of the DragonBar to play back your dictation.

The transcribed words will be highlighted on the screen as the audio is played back. If you see an error, press the Correction hot key (normally the minus (-) key on the numeric key pad) or click the Correction button on the DragonBar Extras toolbar. The Correction menu appears with the selected text, and you can use the keyboard to make any necessary corrections.

After you correct any "misrecognitions," Dragon will automatically update your user profile to reflect your changes. In this way, Dragon will deliver even better recognition results in subsequent transcription sessions.

Key points about using Philips 9600 with Dragon:

- ✓ You can add a new dictation source to an existing user profile and retain custom words added to your user profile.

- ✓ It is required to convert the DSS Pro file format to .WAV to work with Dragon NaturallySpeaking.

- ✓ You must correctly set the options on the Philips recorder prior to creating your Digital Recorder profile with Dragon NaturallySpeaking.

- ✓ Speaking more naturally and in longer utterances improves the accuracy of Dragon NaturallySpeaking.

- ✓ Making corrections with the Dragon Bar increases accuracy for future transcriptions.