



# SPEECHCONTROL

Device control center for Philips SpeechMike and foot control

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**PHILIPS**

## Administration guide

### SpeechControl 3.3



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SPEECH  
PROCESSING  
SOLUTIONS



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## INTRODUCTION

SpeechControl has been designed to control different applications on Windows computers with a Philips SpeechMike.

The software allows to assign different functions to each button, enable or disable certain features, and also to control applications via hotkeys. For text generation you can simply write the specified text with a button click into the text editor.

Even more advanced, you can quickly execute your favorite Dragon NaturallySpeaking commands with just a button click on the device.

The device configuration settings can be loaded from and saved to the device. You can also restore the default device configuration settings and save them to the device.

When starting Philips SpeechControl, the settings are automatically loaded from the connected active device. Changes made with other applications on the active device after the first startup are not downloaded to SpeechControl; you have to download them manually. If a device is already connected to the computer and you additionally connect another device, the second connected device becomes the active device. The device configuration settings will be loaded automatically.

To change the behavior of the active device and configure the buttons, go to the [Device](#) page.

To make configurations on the active device for handling different applications, go to the [Application Control](#) page.

When encountering problems, you can try to find a solution in the help.

[Administrators](#) have the advantage to use the silent setup option to rollout the application system-wide without having to move from PC to PC.

Additionally SpeechControl 3.3 now provides central application control configuration options, which enables administrators to centrally rollout SpeechMike button assignments e.g. for Dragon NaturallySpeaking.

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## SETUP OPTIONS

### TYPICAL WORKSTATION INSTALLATION

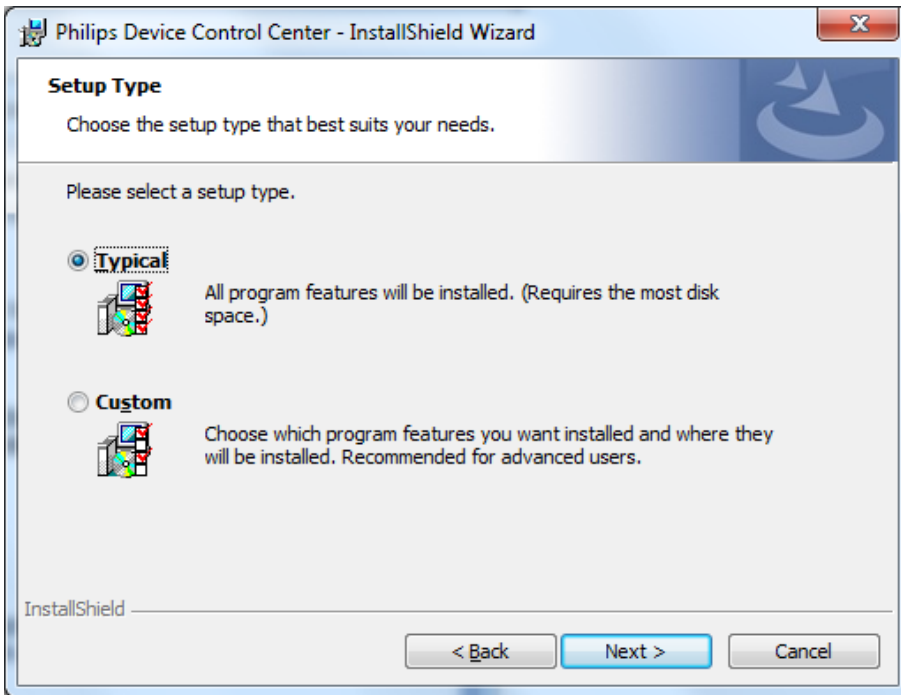
- Click 'Install' in the autorun splash screen



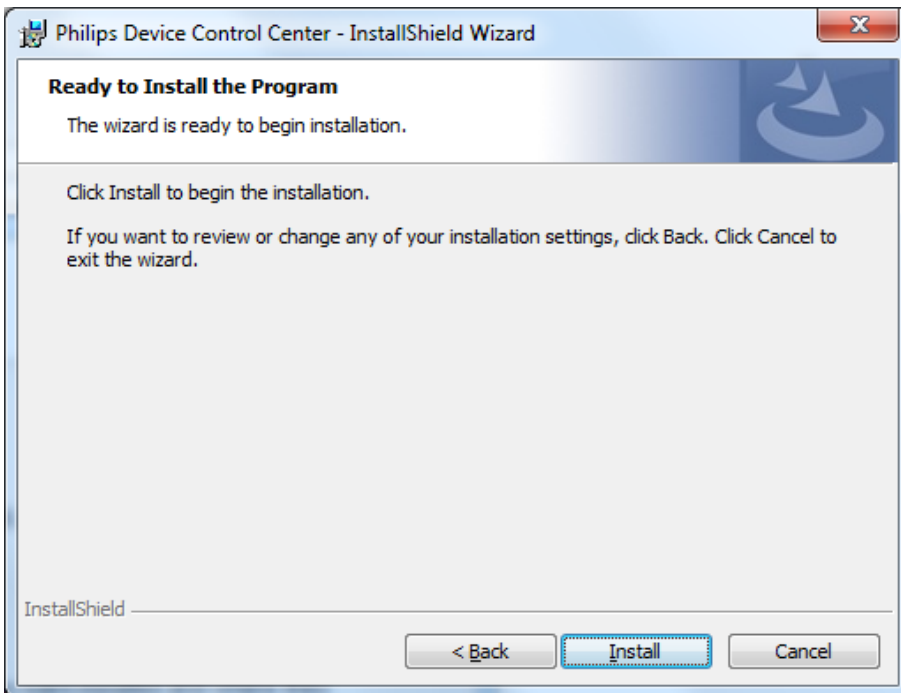
- Click 'Next'



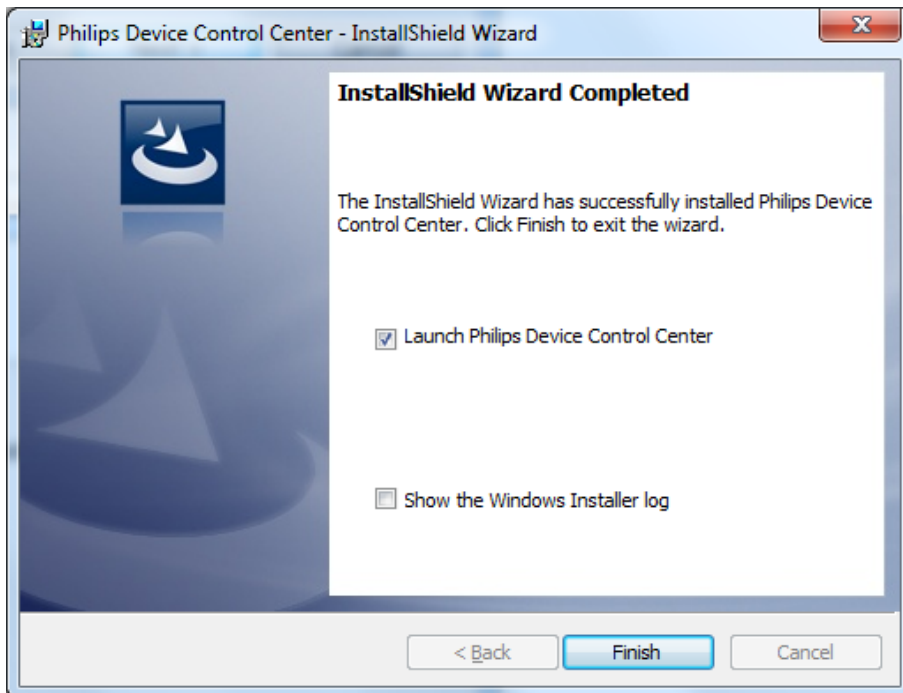
- Click 'Typical' to run a default installation.



- Click 'Install' to start the installation.



- When installation has succeeded click 'Finish' to finalize the installation. Optionally you can select to launch SpeechControl – the Philips Device Control Center when exiting the installation process.



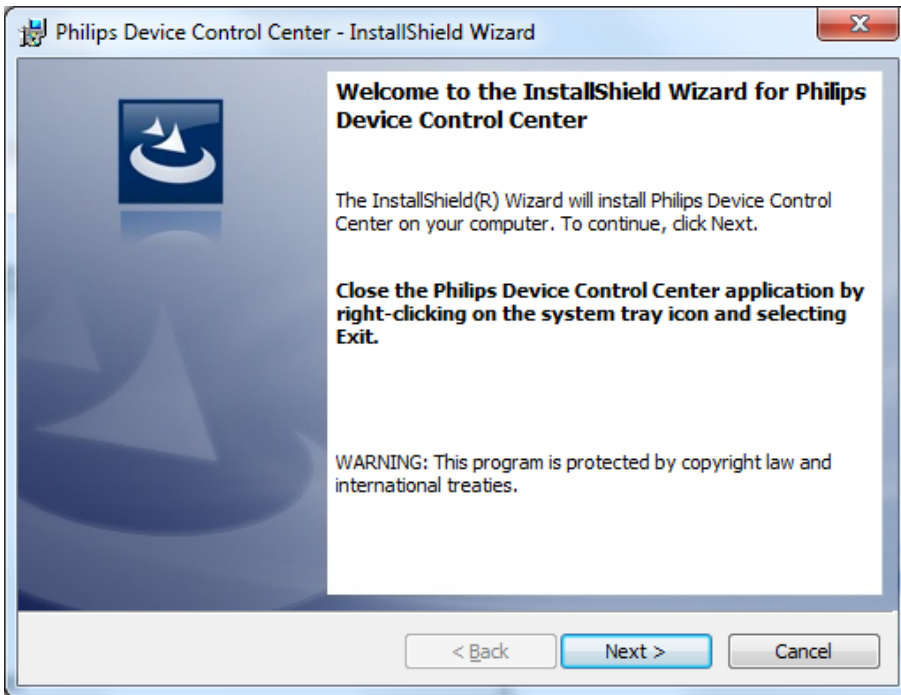
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## CUSTOM INSTALLATION

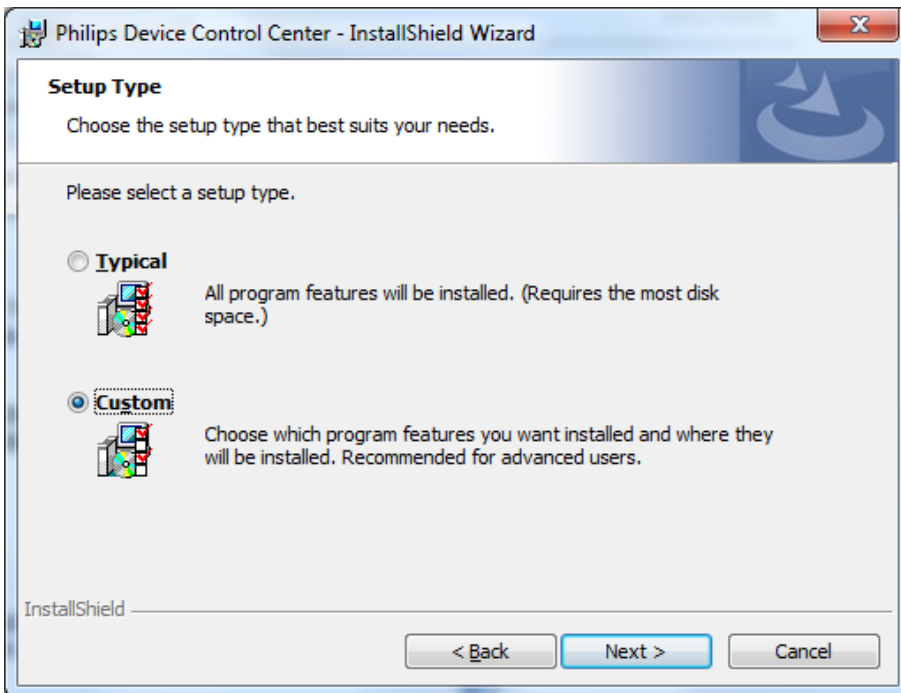
- Click 'Install' in the autorun splash screen



- Click 'Next'

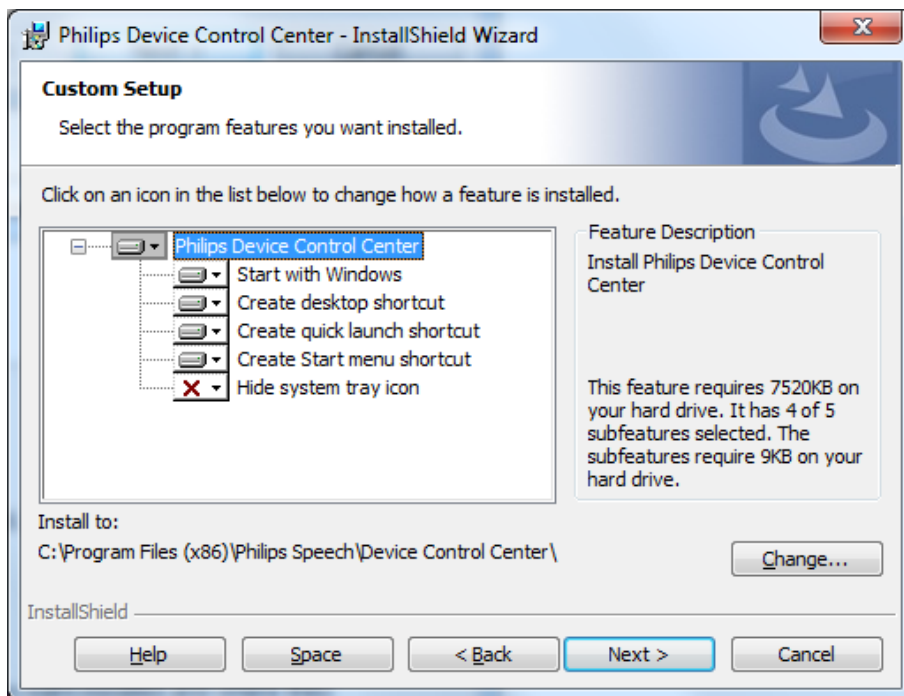


- Click 'Custom' to customize the installation options.

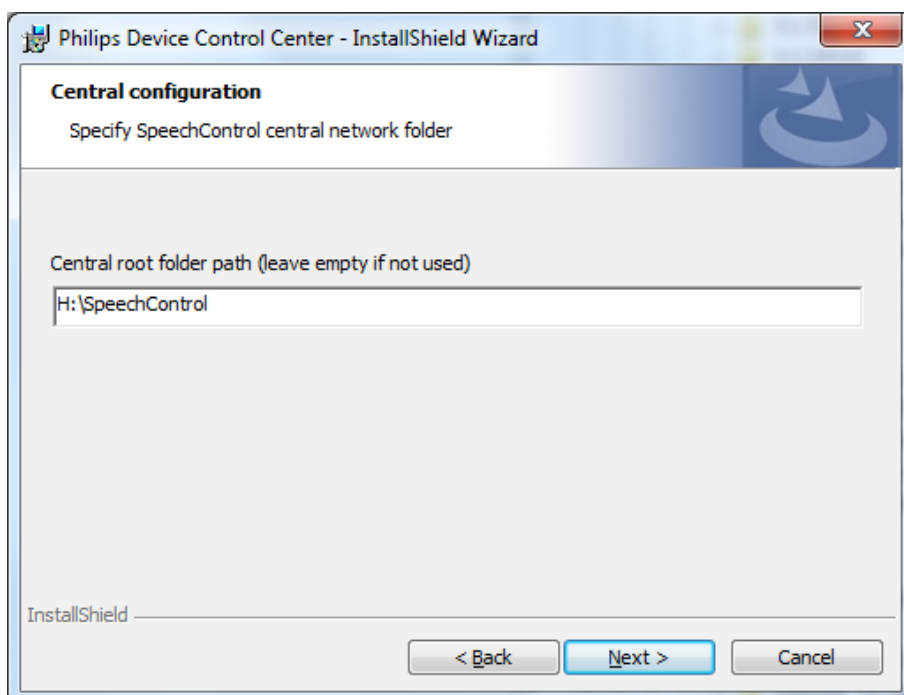




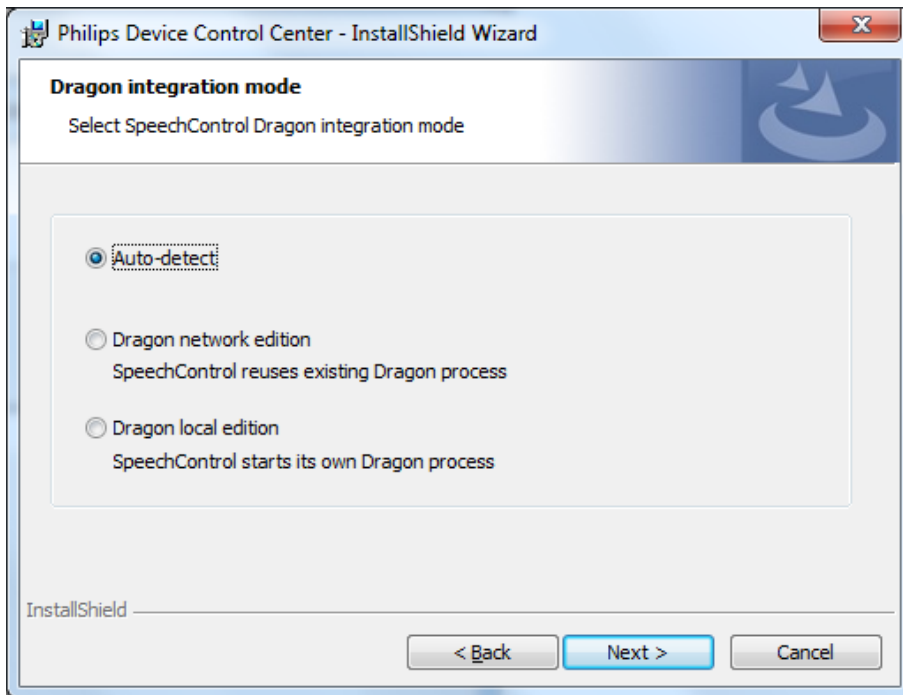
- Select the features and functions you would like to install.
- Change the installation directory if required.
- Click 'Next'.



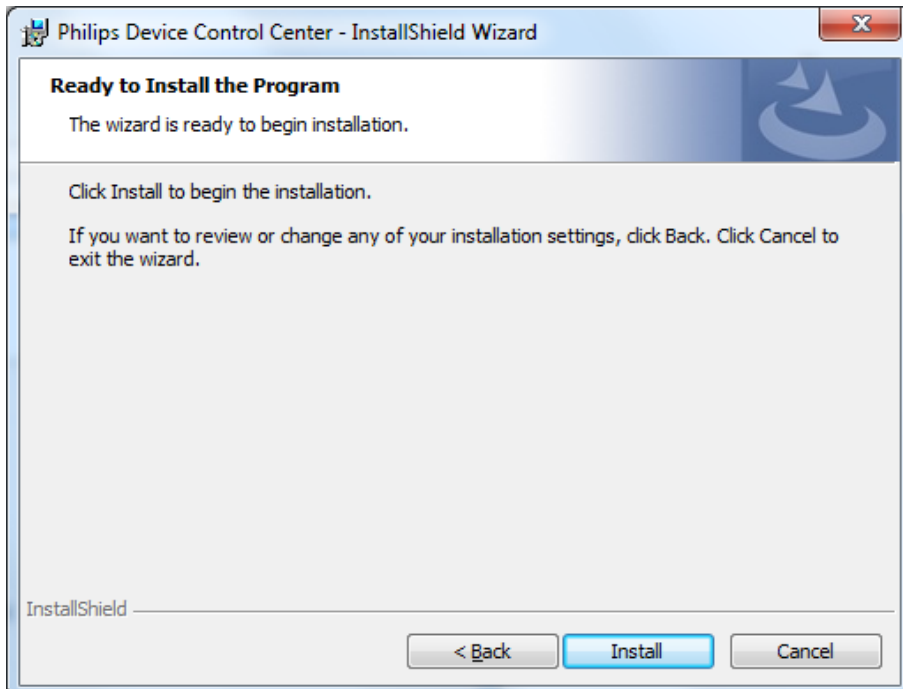
- Define a [central root folder path](#) if you would like to use the central rollout option of 'Application control' configurations (e.g. when assigning default Dragon NaturallySpeaking commands to SpeechMike buttons).  
**Note:** if you do not specify a folder, the central configuration will not be used.
- Click 'Next'.



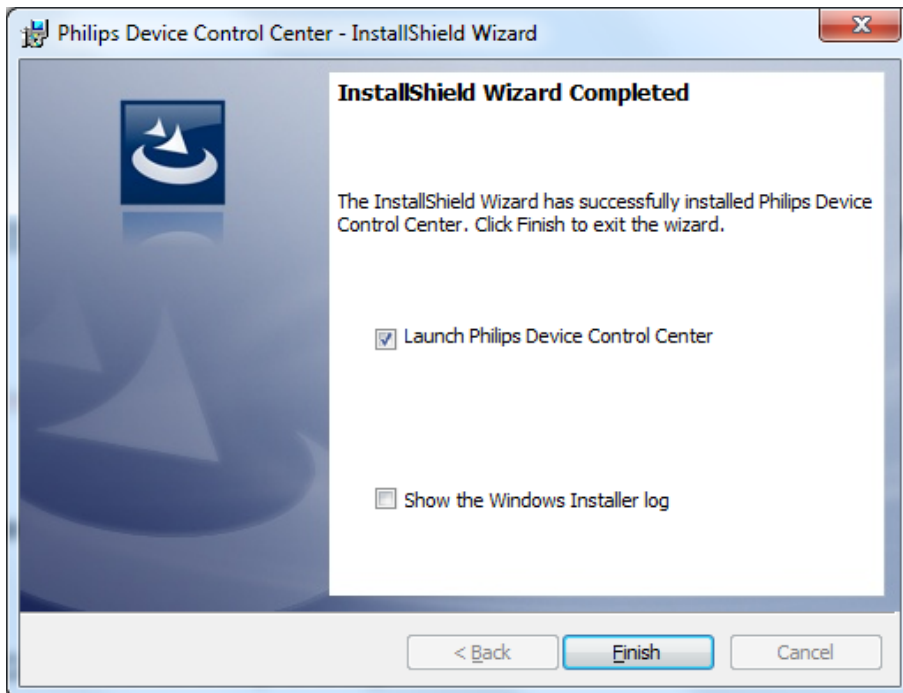
- Specify the Dragon integration mode (applies only for Dragon NaturallySpeaking Network Edition in North America).
- Click 'Next'.



- Click 'Install' to start the installation.



- When installation has succeeded click 'Finish' to finalize the installation. Optionally you can select to launch SpeechControl – the Philips Device Control Center when exiting the installation process.



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## SILENT SETUP

### SETUP TYPES

You can use the following setup types:

- Normal (interactive) setup:  
PhilipsDeviceControlCenterSetup.exe [exe\_parameters] /V"<MSI parameters>"
- Administrative setup: PhilipsDeviceControlCenterSetup.exe /a
- Logged setup: PhilipsDeviceControlCenterSetup.exe /V"/l\*v c:\setuplog.txt"

### BASIC SETUP.EXE PARAMETERS:

The most important parameters passed directly to PhilipsDeviceControlCenterSetup.EXE (indicated as [exe\_parameters] in the command-line above):

- /a: Administrative installation
- /x: Uninstall mode
- /v: Pass arguments to MSIExec  
(MSI parameters, see Setup project parameters (MSI parameters))

⚠ Important: Parameter names and values are case-sensitive!

## FEATURE PARAMETER NAMES AND POSSIBLE VALUES

(the first value is the default):

- AUTOSTART YES | NO
- DESKTOPSHORTCUT YES | NO
- QUICKLAUNCHSHORTCUT YES | NO
- STARTMENUSHORTCUT YES | NO
- HIDETRAYICON NO | YES
- DRAGONINTEGRATIONMODE 0 | 1 | 2
- APPLICATIONCONTROLCENTRALROOTFOLDER (empty)

 **Note:** APPLICATIONCONTROLCENTRALROOTFOLDER specifies the optional central root folder of the application control configuration synchronization

### DRAGONINTEGRATIONMODE values

0 = auto-detect

1 = Dragon network edition

2 = Dragon local edition


### EXAMPLE

PhilipsDeviceControlCenterSetup.exe /V"/qn INSTALLDIR=c:\PDCC HIDETRAYICON=YES"

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## CUSTOM APPLICATION CONTROL CONFIGURATION

This chapter describes how to roll out a custom application control configuration throughout the entire organization.

 **Note:** this feature does not rollout SpeechMike device settings (e.g. enable/disable trackball) throughout the entire organization. For this purpose please use the Philips Remote Device Manager

### BASIC PRINCIPLES

#### Synchronizing Application Control Configuration


SpeechControl offers an optional synchronization for the application control configuration to a folder, generally on a network, specified during setup. The advantage of synchronizing application control profiles is that a user can access the same user-defined configuration from multiple computers, whereas a local profile is only available on a single computer.

### THE CONFIGURATION FILE

From SpeechControl 3.3 onwards an 'Application Control' configuration XML file is used.

With this file the administrator can e.g. assign default Dragon NaturallySpeaking commands to SpeechMike buttons.

In SpeechControl 3.3 this file is called '*AppControlConfig.7.0.xml*' which can be found by default in the folder: `<"C:\Users\<User name>\AppData\Local\Philips Device Control Center">` (Windows Vista and Windows 7 and Windows 8)

 **Important:** For the central rollout it is important that no different file name is used

When utilizing central configuration there are three configuration profiles:

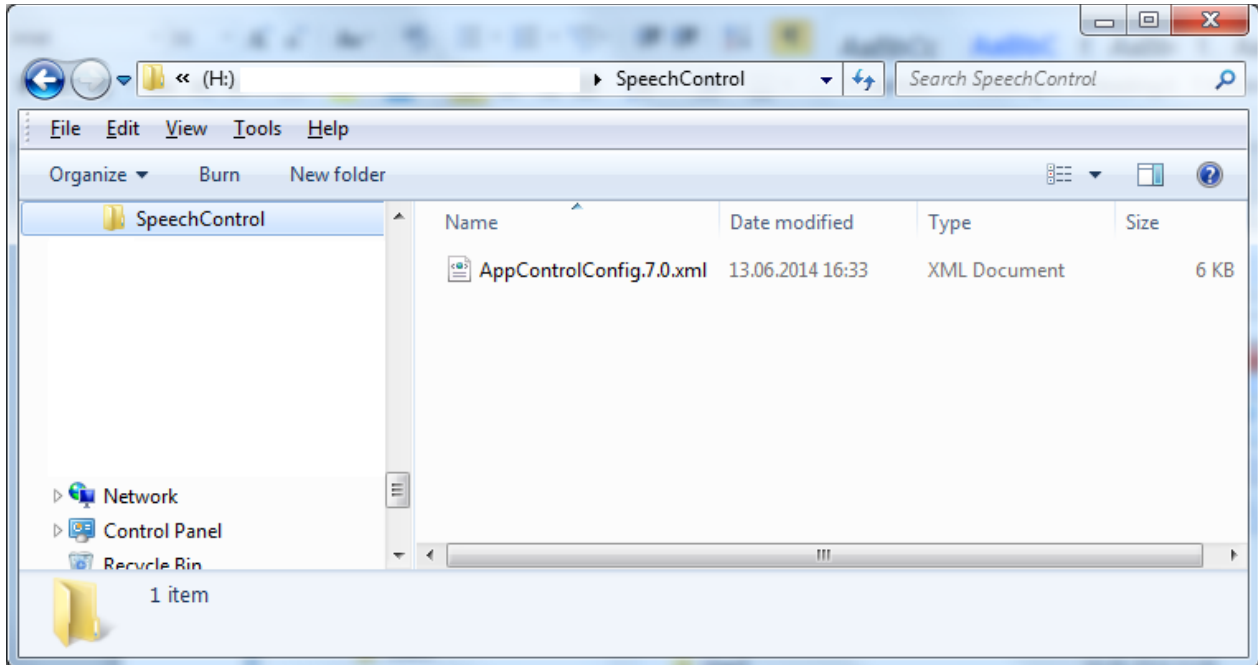
- A **central administrator configuration** that the administrator creates and generally stores on a network drive so that every user can access it. Such a configuration profile is suitable for companies where every user has, or must have, the same exact application control configuration.
- A **central user configuration** that a user creates and can download to any computer where the central network drive is specified during setup. This configuration profile works best at places where the administrator creates an initial central configuration profile and users create their own custom configurations that they want to use on multiple workstations. Users can download their central user configuration profile to any computer, which allows them to use their devices the same way from these computers.
- A **local user configuration** that is saved locally on a computer. Anyone can use a local configuration as long as they are logged in to the computer where the local configuration is stored. As soon as the user moves to another computer, the local configuration file will not be available. This configuration profile is only advantageous for those users who always use the same computer.

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## CENTRAL CONFIGURATION FOLDER

During installation the administrator has to specify the central 'application control' root folder.

**Note:** Before rolling out the SpeechControl application to the users please make sure that in this folder the central '*AppControlConfig.7.0.xml*' file is available.



**Important:** when specifying in the central application control root folder a default '*AppControlConfig.7.0.xml*' is not created in this folder.

There are two options to create a default configuration file:

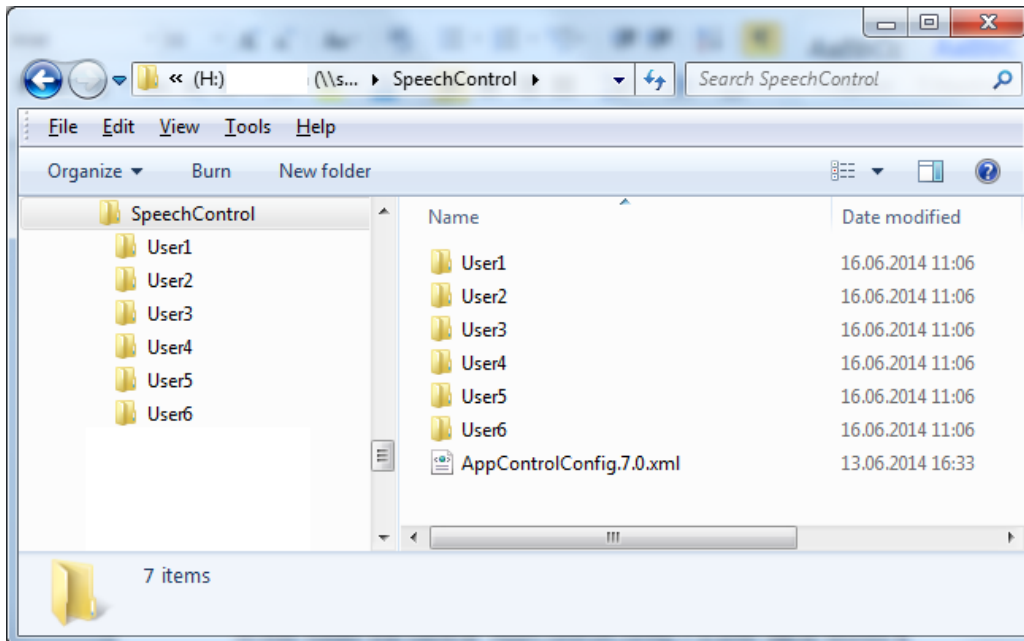
- Copy a configuration file from '<..\Tools\Application Control Profiles>' on the SpeechControl CD
- Export a configuration file from the speech control application to the central application control root folder ([see below](#)).

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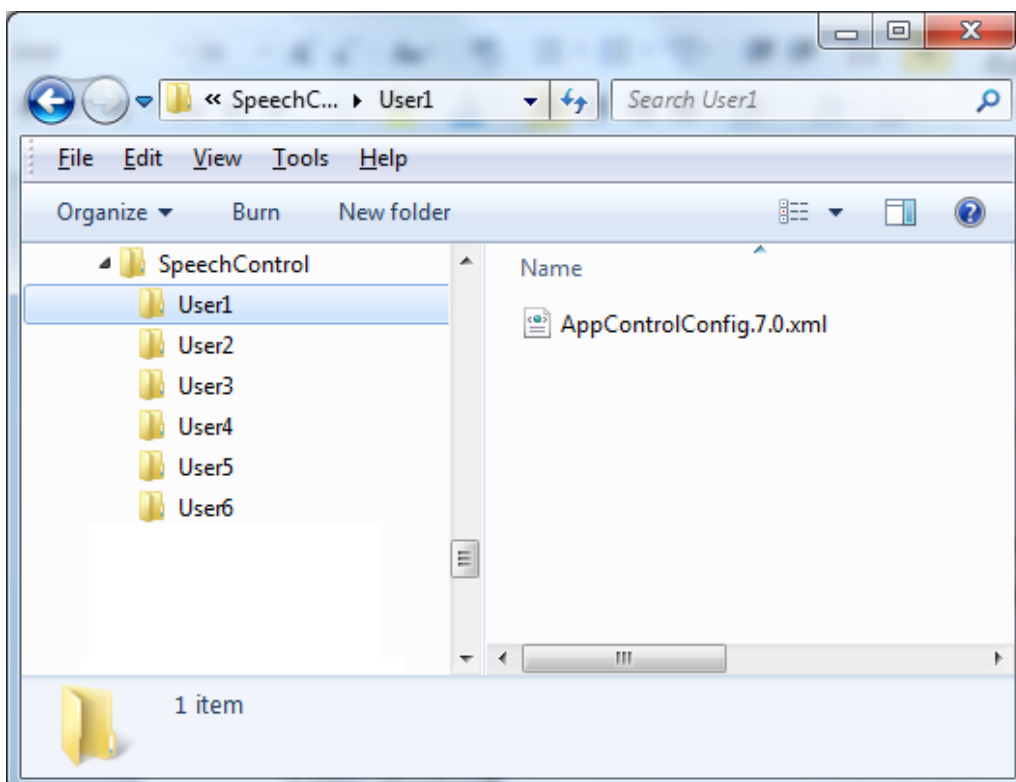
## USER CONFIGURATION FOLDERS

If users are allowed to change their individual application control configuration in a central rollout scenario, SpeechControl automatically creates **Windows user** specific configuration file subfolders for every user underneath the central application control root folder. In these subfolders the user's SpeechControl configuration XML files are stored.

**⚠ Important:** as soon as the user's central configuration file is available any changes to the administrators configuration file will not be rolled out to the user.



User configuration folders



User configuration file

## CENTRAL CONFIGURATION SCENARIOS

SpeechControl 3.3 supports two central configuration scenarios:

- A. Centrally managed configuration
- B. Centrally saved user configuration

### A - CENTRALLY MANAGED CONFIGURATION

In this scenario users shall never modify their own application control configurations.

Only administrators modify the central configuration.

The administrator creates a central configuration file and modifies that later as necessary. In this case, **every user** has the **same device configuration** on every workstation. If the administrator changes the configuration, that change will apply to every user.



*Central configuration file rollout*

**⚠ Important:** to avoid that users can make changes to their individual user configuration files you have to **restrict the access rights** to the **central configuration folder** to **'read-only'** in the Windows folder administration options.

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## B - CENTRALLY SAVED USER CONFIGURATION

Administrators may create one original central configuration and never change that again (1). In this case, users can create their own custom configuration which will be available on every workstation (2). Users may consider the central administrator configuration as a fallback option.



1. Initial central configuration file rollout



2. Central user configuration file

**⚠ Important:** if you want to rollout a new central configuration file you must delete the user's configuration folders first.  
In this case all individual user configurations ARE DELETED!

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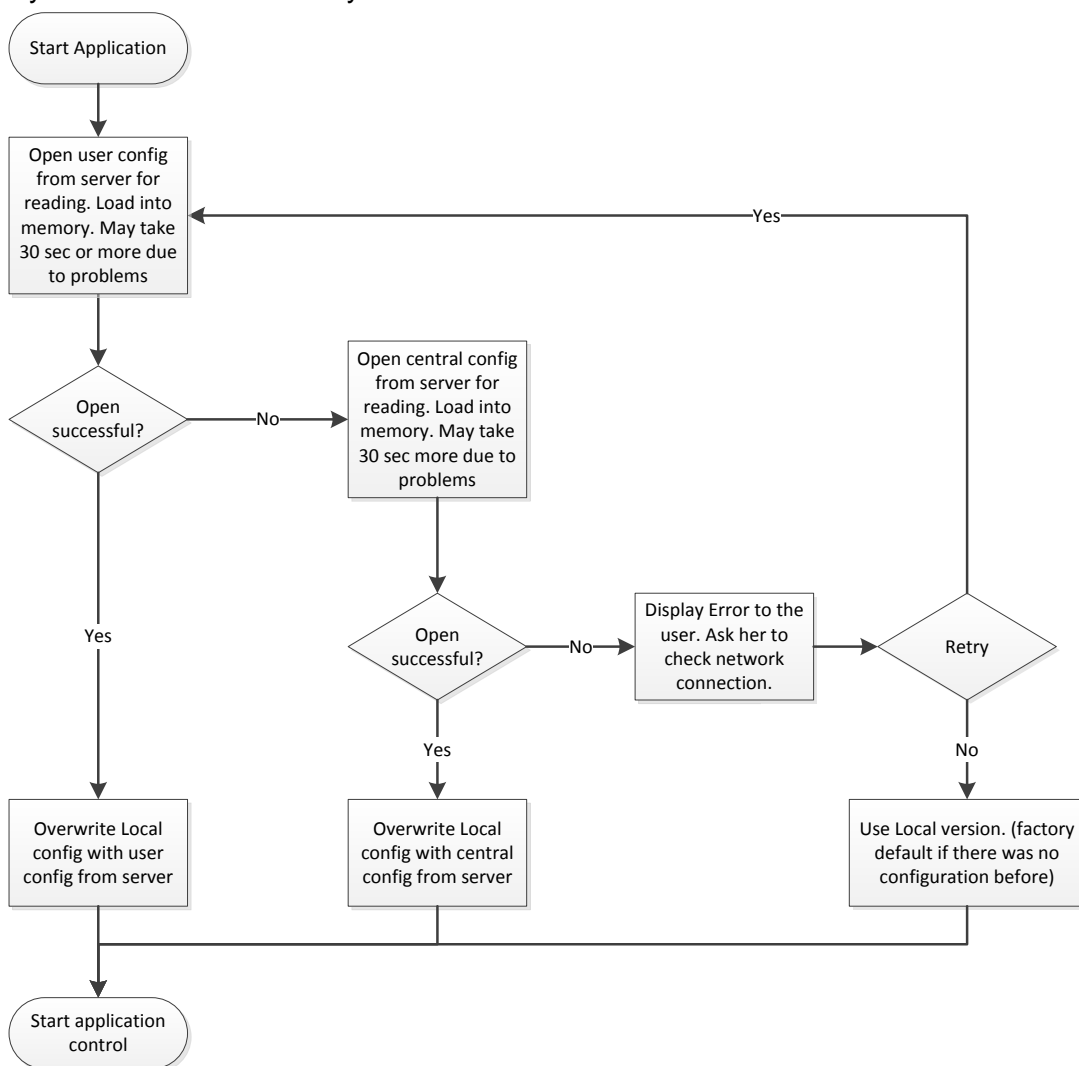
## CONFIGURATION ROLL-OUT

After application start up SpeechControl loads the application control configuration with the following priorities:

1. User configuration in the central user folder
2. Central admin configuration in the root central folder
3. Local application configuration file (with upgrade when needed)
4. Built-in default configuration (and save it as local configuration)

**Note:** When an administrator creates a central configuration profile, users must **restart SpeechControl** for the changes to take effect - it is not enough to close the main window. To do so, click 'Exit' in the Application menu and restart SpeechControl.

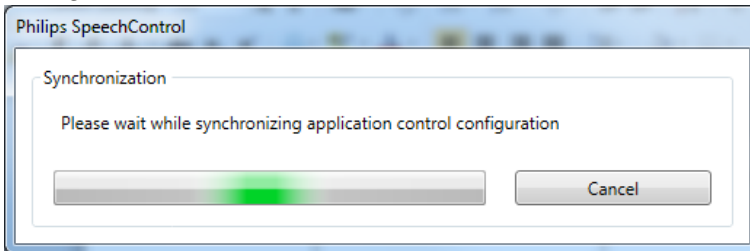
The following diagram describes how the configuration file is loaded at start-up. The application control only starts after the whole synchronization is finished.



The synchronizing process is displayed in the task progress window (see below).

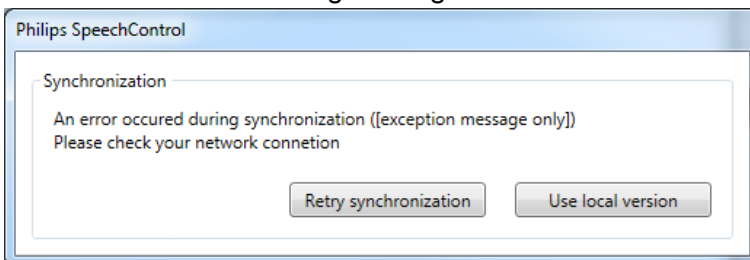
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The following dialog is displayed while SpeechControl loads the user's or the administrator's configuration from the central location.



When the user clicks on 'Cancel', then the task is removed immediately and the local configuration file is used.

If an error occurred during loading from the network location, then the following dialog is displayed:



Synchronization errors are written to the log file.

## SETTING UP A NETWORK FOLDER FOR CENTRAL CONFIGURATION PROFILES LATER ON

When you set up Philips SpeechControl, select **Custom** installation and define your network folder there. However, if you have not selected a network folder for your central configuration profiles during installation, you can do so any time in the Windows Registry Editor as follows:

1. Press the **Windows key + R** to open the Run window.
2. Type **regedit** and press **Enter** to open the Windows Registry Editor.
3. Navigate to the folder:
  - 32-bit systems: 'HKEY\_LOCAL\_MACHINE\SOFTWARE\Philips Speech\Device Control Center'.
  - 64-bit systems: 'HKEY\_LOCAL\_MACHINE\SOFTWARE\Wow6432Node\Philips Speech\Device Control Center'
4. Right-click the folder name and select **New > String value**.
5. Type 'ApplicationControlCentralRootFolder' as the name of the string.
6. Double-click the string name and type the path of your network folder into the **Value data** field.
7. Close the Registry Editor and restart SpeechControl for the changes to take effect.

The specified network path will be the location of the central administrator configuration profile. The central user configuration profiles will be stored in subfolders with the name of the individual users.

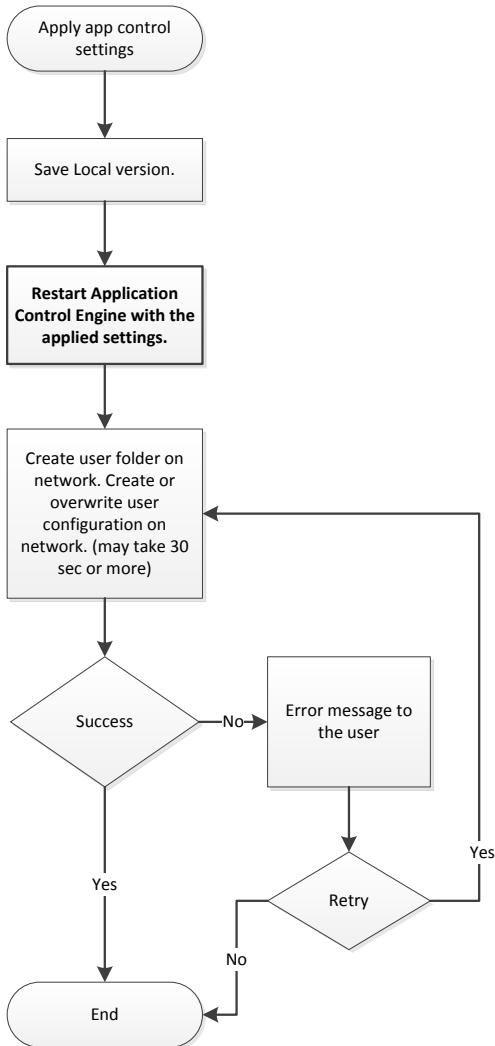
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## SAVING PROCESS FOR CONFIGURATION CHANGES

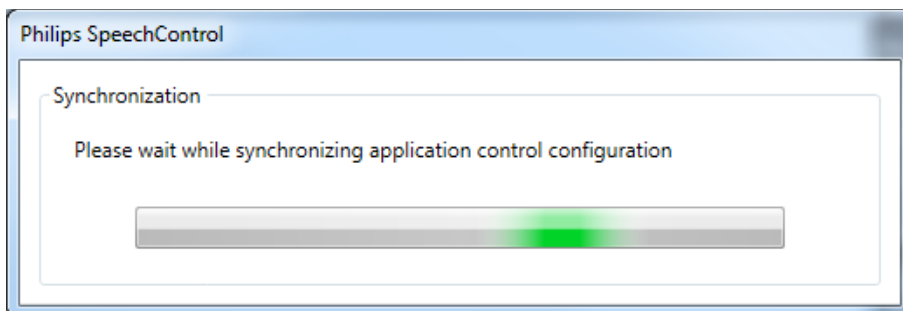
Users can edit their application control configuration as usual, the apply button is enabled only when there are changes made in the 'operations editor'.

When the user presses the 'Apply' button in the application control editor, then the application saves the configuration locally and it is immediately pushed to the application control engine, so the user can start using the changes while the synchronization to central location runs.

The following diagram describes the change process for central user configurations:

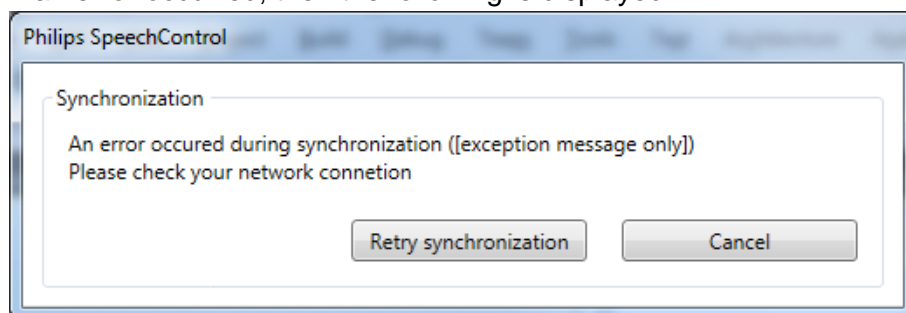


The following task is displayed while the application writes the user configuration to the central location.



The user can use the new configuration while the synchronization takes place.

If an error occurred, then the following is displayed:



Synchronization errors are written to the log file.

## LIMITATIONS TO CONSIDER

User-defined changes in the configuration will be lost without any notification in the following cases:

- A configuration profile is modified from multiple computers at the same time. For instance, an administrator and a user can change the user's central configuration profile simultaneously. In this case, whoever saves the modifications to the configuration profile later will overwrite the other person's changes.
- If there is a network error when the user saves the central user configuration profile, the configuration will be saved locally and the application will use this locally modified version. However, when the network connection is restored and the application starts again, the local configuration profile will be overwritten with the unchanged central user profile without warning.
- The central (network) location does not create backups of the last known working configuration. If, for instance, the configuration profile becomes corrupted due to a network error, you cannot roll back the configuration file to the last working version.
- The **Apply** button on the **Application control** page is only enabled when there are unsaved changes. When the user clicks **Apply** to save pending changes, those modifications are first saved locally and then synchronized with the central user configuration profile. If there is a network error during synchronization, SpeechControl displays a warning message and the user can retry synchronization when network connection is restored.
- On some PCs the automatic startup of SpeechControl has to be delayed to enable synchronization with a network folder. Please use the built in task scheduler of Windows (C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Administrative Tools\Task Scheduler.Ink) or use third party tools like 'WinPatrol, Startup Delayer und LaunchLater'.

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## APPLICATION CONTROL


### Geared for Dragon NaturallySpeaking

Immediately after installation of Speech Control the SpeechMike can already be used to control **Dragon NaturallySpeaking**.

The **“Default” profile** contains the most important DNS commands for recording and correcting recognized text with just simple button clicks on the SpeechMike.



Even a sentence in the Dragon tutorial states the following:

 Before you start, remember that even though you can do everything by voice, many people find it more efficient to use a combination of mouse, keyboard, and dictation.

So, why not using your voice and the dictation buttons on one single device?

Lean back comfortably and use the SpeechMike for convenient text creation with the DNS software .

More information about the functions can be found later in this document.

### APPLICATION CONTROL TOOLBAR



With the application control toolbar users decide what they want to do with the modified configuration.



**Apply:** Activates new or changed settings.



**Reload:** Loads the current active setting if the “Test” button has been pressed before.



**Test:** Use this button to test a configuration without activating it



**Export:** Export configuration into an ‘AppControlConfig.7.0.xml’ file.  
Users can decide, which configurations they want to export:



**Import:** Imports configuration file into the active profile.

**Note:** you might need to search for ‘All files (\*.\*)’ to display an ‘AppControlConfig.7.0.xml’ file.

## EVENT SELECTOR

The event selector is a filter option for the function list.

By default it shows only events that are possibly coming from the currently active device.

Show events available on the current device

Show all available events

## PROFILE DEFINITION

The profile definition dialog is the heart of the Application Control.

Here you define for which application SpeechMike buttons should be configured, and you assign appropriate functions to the SpeechMike buttons.

**Profiles**

Target application: (default - all other applications)  
 NOTEPAD  
 POWERPNT

Selected profile: (default - all other applications)  Active profile

Name	Pressed	Released
Record	Toggle microphone	Microphone off and stop
Insert	Show correction menu or dialog	Microphone off and stop
EOL	Select words backward	Microphone off and stop
Rewind	Move cursor backward	Microphone off and stop
Forward	Move cursor forward	Microphone off and stop
Command	Return	Microphone off and stop
Play Stop Toggle	Play from cursor	Microphone off and stop
Ctrl + Record		
Ctrl + Insert		
Ctrl + EOL		

### Defining a profile

To define a profile to control a specific application just follow the few simple steps below.

#### 1. Select the target application

Click on the  button and select a new application that shall be controlled or select the target application from the "Target application" window

#### 2. Select SpeechMike function to be configured

Go to the function list and select SpeechMike function (button) that shall trigger an event. Click on the  button to open the "Operation editor" window.

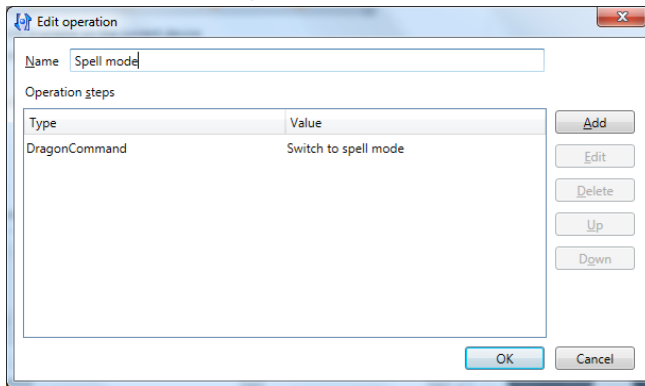
**Note:** You can specify whether you want to send an event when **pressing** a button **and/or** when **releasing** the button.

This is a **new function** that was not available in the Control Application.

### 3. Specify commands to be executed

Add a command in the “Edit operation” dialog.


A list of available [operation commands](#) can be found below.



Click “OK” to confirm the selection.

### 4. Activate the profile

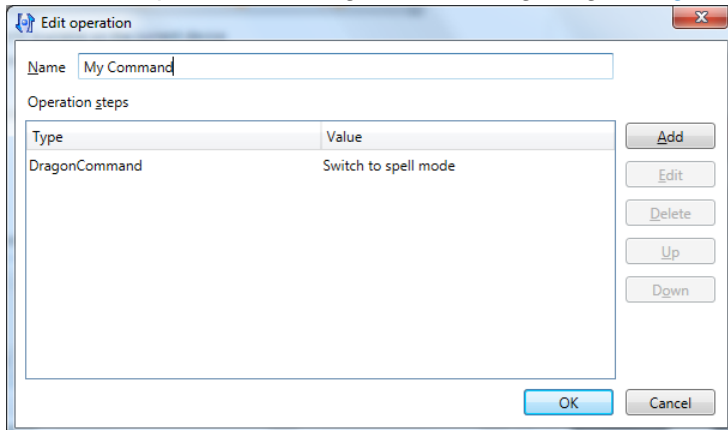
Click  to use the profile, or click  to just test the configuration.

 **Note:** Please take care that the  **Active profile** checkbox is enabled and the "activate application control" option in the Systray is enabled.

### 5. Start using Speech Control!

## OPERATION COMMANDS

The “Edit Operation” dialog allows configuring a [single](#) or a [sequence](#) of [operation commands](#).

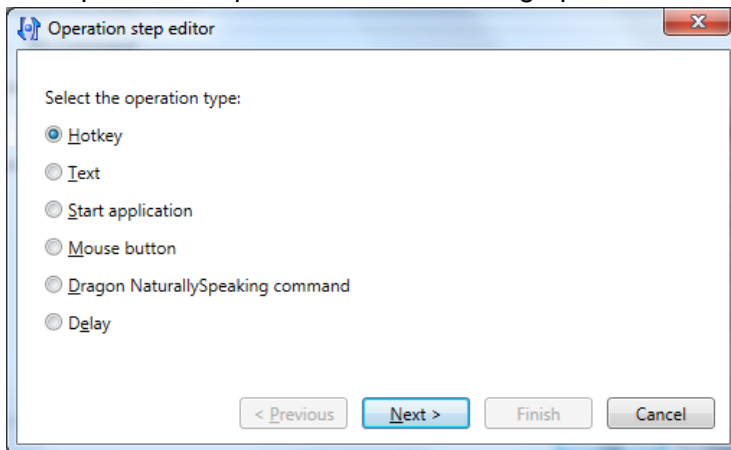


- Specify the name for the command and click "Add"
- The operation step editor appears.



## Operation step editor

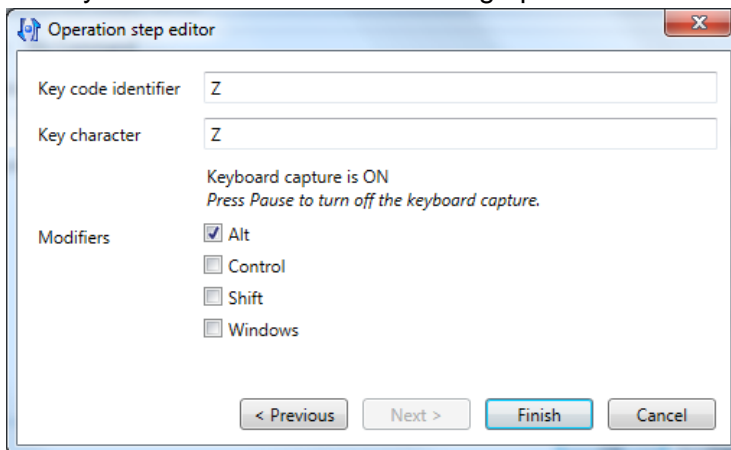
The operation step editor offers following options



## Hotkey

Sends a hotkey command to the assigned application

Hotkeys can be defined with following options:



In this example a SpeechMike button click sends a “Alt+Z” hotkey command to the application.

## Text

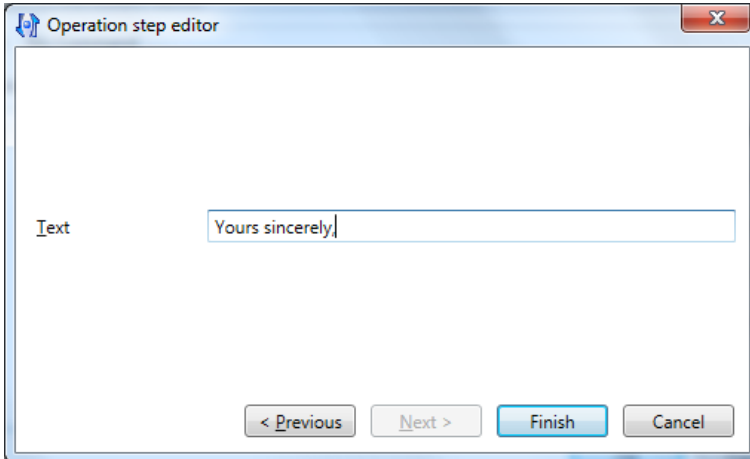
With this option you can place predefined texts into an application.

As an example you can place your signature just with a button click e.g.:

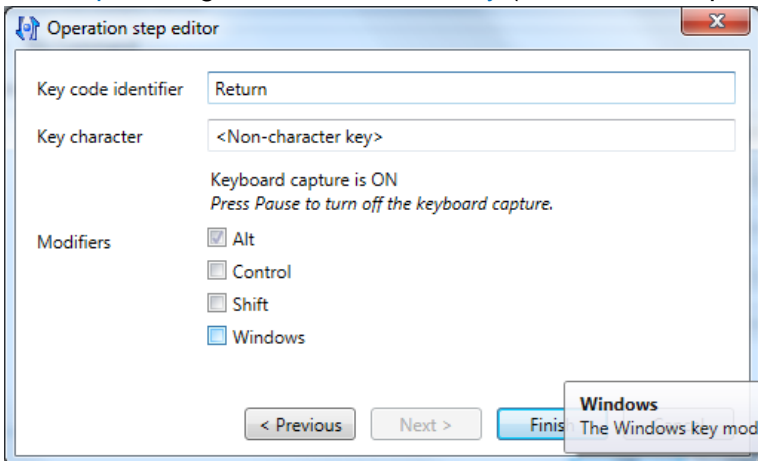
*Yours sincerely,*

*John Doe*

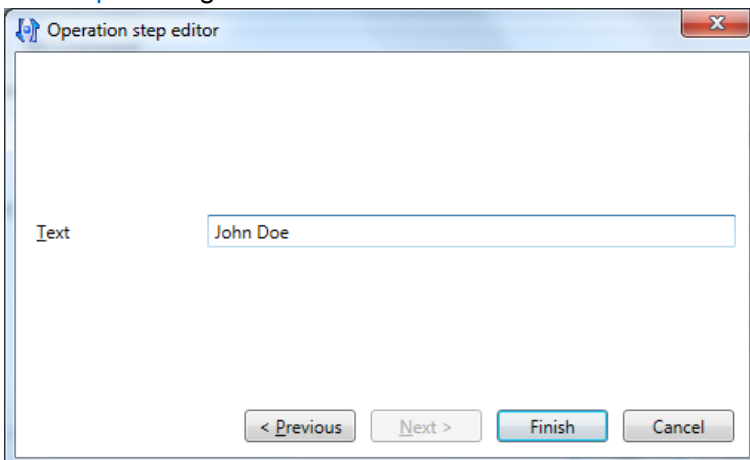
### ◆ Step 1: Program first line



### ◆ Step 2: Program a "Return" hotkey (as in the example above).

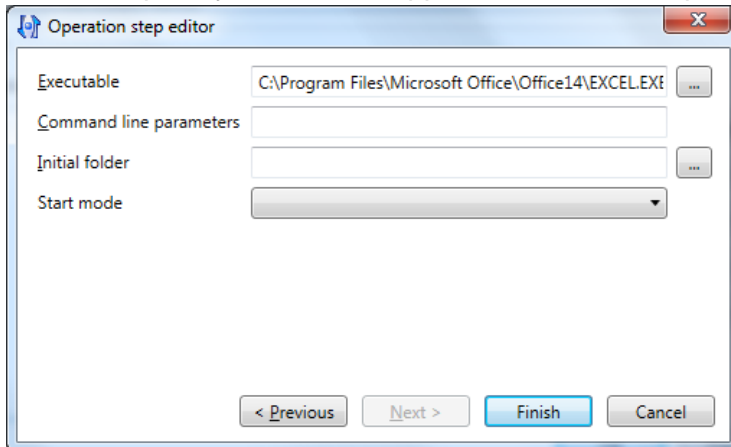


### ◆ Step 3: Program the second line




## Start application

With this option you can start applications with a simple button click on the SpeechMike.



Follow these steps to configure how the application shall be started up

**Executable** Click on  to browse for the executable

**Command line parameter:** Specify (optional) command line parameter to start up the application

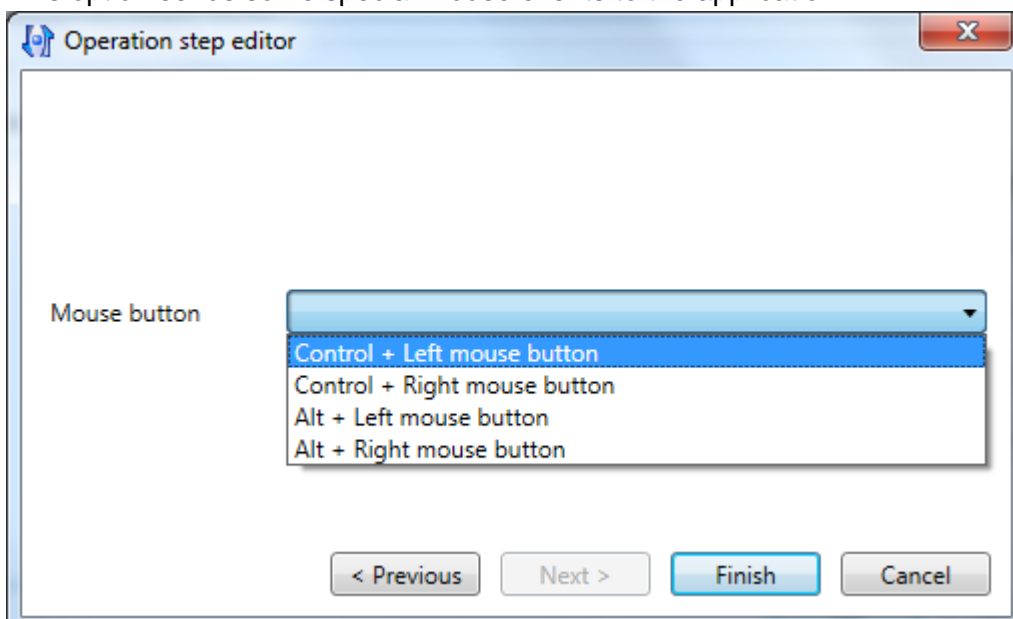
**Initial folder:** Specify the (optional) default folder of the executable

**Start mode:** Specify the mode how the application shall be started up:

**Window start mode**  
Specify the mode in which the main window of the application should start when pressing the selected button on the active device.  
*Normal window:* The window will be normal sized.  
*Minimized window:* The application will start with minimized window, it will be visible only on the taskbar.  
*Maximized window:* The application will start with maximized window, it will cover the full screen.

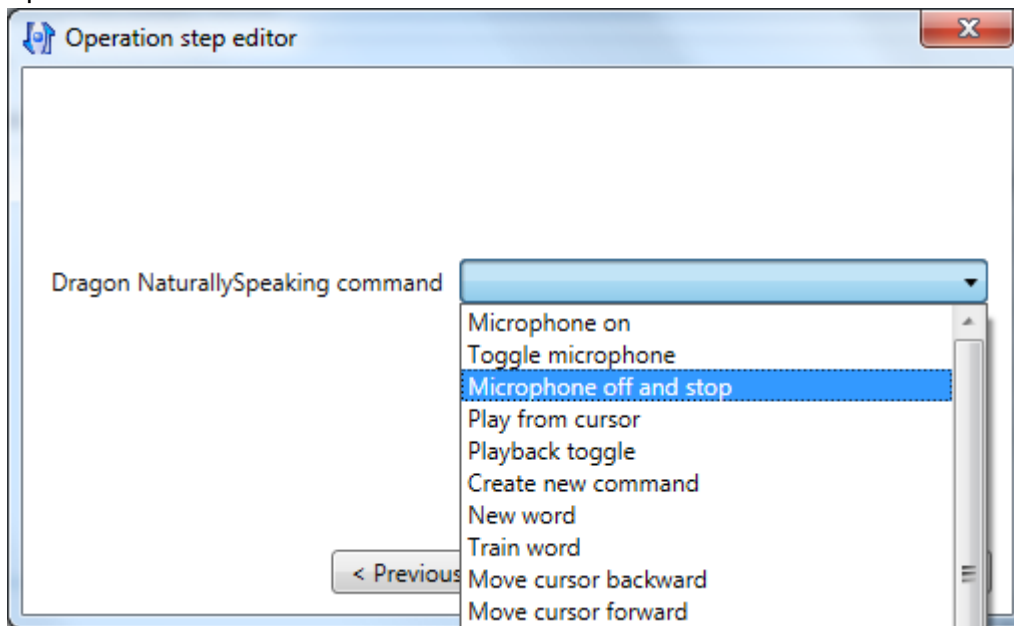
## Mouse button

This option sends some special mouse events to the application:



## Dragon Naturally Speaking Command

With this option you can program some dedicated Dragon NaturallySpeaking commands to your SpeechMike buttons:





**Note:** Dragon NaturallySpeaking commands also work if another application is in focus.

## THE AVAILABLE DRAGON NATURALLY SPEAKING COMMAND SET

The following commands are now available in the SpeechControl software

Command	Description
Microphone on	Switches the microphone ON - should be combined with command "Microphone off and stop" (Press:Microphone ON / Release: Microphone OFF and STOP)
Toggle microphone	Toggles the microphone ON and OFF on every button click
Microphone off and stop	Switches the microphone OFF and stops recording or playback
Play from cursor	Starts playback from current cursor position (cursor is not moved) - should be combined with the command "Microphone off and stop" (Press:Microphone ON / Release: Microphone OFF and STOP)
Create new command	Opens the Dragon Command editor
New word	Opens the Dragon New Word dialog
Train word	Opens The Dragon Training dialog
Move cursor backward	Moves the cursor position backwards
Move cursor forward	Moves the cursor position forwards
Select word backward	Marks and selects the words backwards
Select word forward	Marks and selects the words forwards
Show correction menu or dialog	Opens the Dragon correction menu

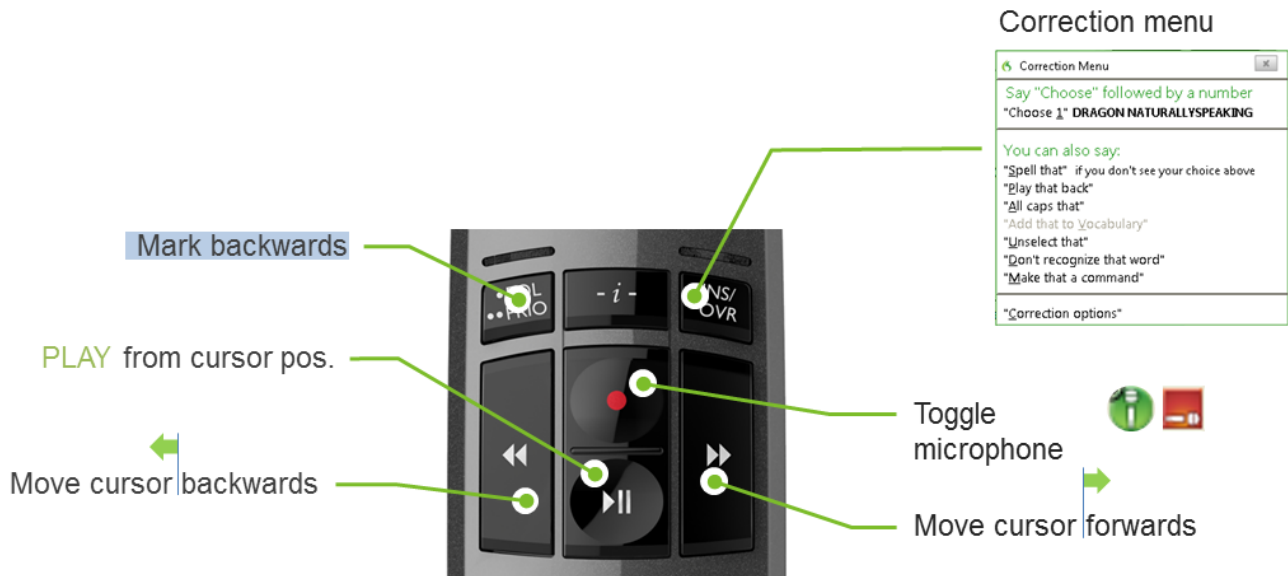
Command	Description
Show dictation box	Opens the Dragon dictation box that allows to dictate and edit text in applications that are not fully supported by Dragon.
Transfer Text (from dictation box)	Transfers the text dictated in the Dictation Box to the target application. The Dictation Box then closes.
Capitalize that	Capitalizes the selection – especially useful for German speaking users
Compound words	Merges the selected words – especially useful for German speaking users for compound nouns. (in German: zusammengesetzte Hauptwörter).
Transcribe recording	Is used to transcribe sound from external sources
Tab forward	Sends a “Tab” event to the recognizer
Next field	Jumps to the next field that is identified with a set of delimiting characters – by default this is [ ]
Previous field	Jumps to the previous field that is identified with the delimiting characters – by default this is [ ]
Clear delimiting characters (=“accept defaults)	Deletes all left over fields that are identified with a set of delimiting characters.
Switch to command mode	Switches the recognizer to command mode for faster command recognition. Only commands are recognized.
Switch to dictation mode	Switches the recognizer to “Dictation mode” for faster speech recognition.  <b>Note:</b> only dictation commands are available, some commands assigned to SpeechMike buttons might not work correctly.
Switch to normal mode	This is the default mode for speech recognition. All commands are available.
Switch to number mode	Switches the recognizer to “Numbers mode” for faster recognition of numbers. This is useful in certain applications, such as spreadsheets. Commands can still be used.
Switch to spell mode	Switches the recognizer to “Spell mode” which allows you to say any combination of letters, digits, or symbols. Commands can still be used.
User command	Allows programming any (complex) custom Dragon command to SpeechMike buttons. Can also be used for not natively supported <b>languages</b> to program Dragon commands to SpeechMike buttons.  <b>Note:</b> This option “mimics” spoken commands. In some rare cases it might be possible that Dragon cannot recognize the programmed command.

## WORKING WITH DRAGON NATURALLYSPEAKING

### DEFAULT PROFILE

The default configuration is designed to use Dragon NaturallySpeaking with a basic command set.

For enhanced operation steps e.g. when using SpeechControl in a medical environment please use one of the [advanced application control profiles](#) from the SpeechControl CD as a starting point.



### Command description

Command/Description
<b>Toggle microphone:</b> Toggles the microphone ON and OFF on every button click
<b>Play from cursor:</b> Starts playback from current cursor position (cursor is not moved) - is combined with the command "Microphone off and stop" (Press:Microphone ON / Release: Microphone OFF and STOP)
<b>Select word backward:</b> Marks and selects the words backwards
<b>Show correction menu or dialog:</b> Opens the Dragon correction menu
<b>Move cursor backward:</b> Moves the cursor position backwards
<b>Move cursor forward:</b> Moves the cursor position forwards

### Microphone mute

By default the microphone mute option has been set to MUTE THE RECORDING DEVICE WITH OPERATING SYSTEM MIXER WHEN STOPPING RECORDING recorded sounds please check the audio settings of your PC.

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## ADVANCED APPLICATION CONTROL PROFILES

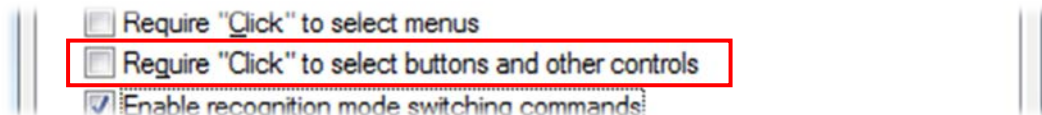
The SpeechControl CD includes some advanced application control profiles for Dragon NaturallySpeaking as a starting point for an easier [central rollout](#) in professional environments.

The profiles can be found in the folder: <..\Tools\Application Control Profiles>

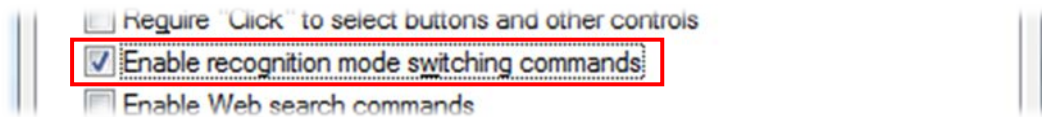
### Preconditions

- Some button assignments contain commands, which require that specific settings are available in [Dragon NaturallySpeaking options](#) menu:

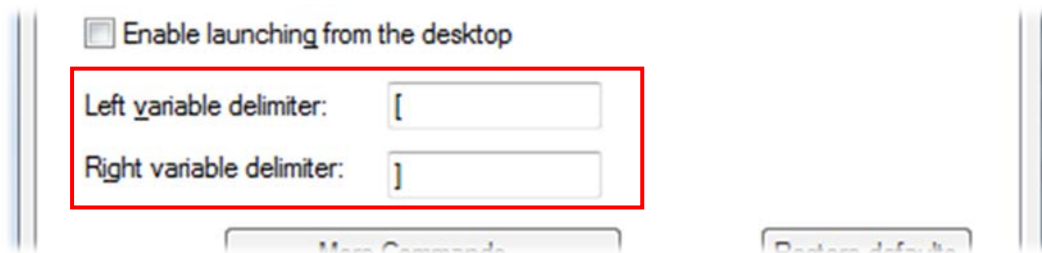
- Disable the option 'Require "Click" to select buttons and other controls'.



- Enable the checkbox "enable recognition mode switching commands"



- If you are using the 'next field' and 'previous field' commands please make sure that they are using left and right square brackets as delimiters.



- Do not use the 'Dictation mode', because in this mode some commands are not executed. Use the "Normal mode" instead (default setting).

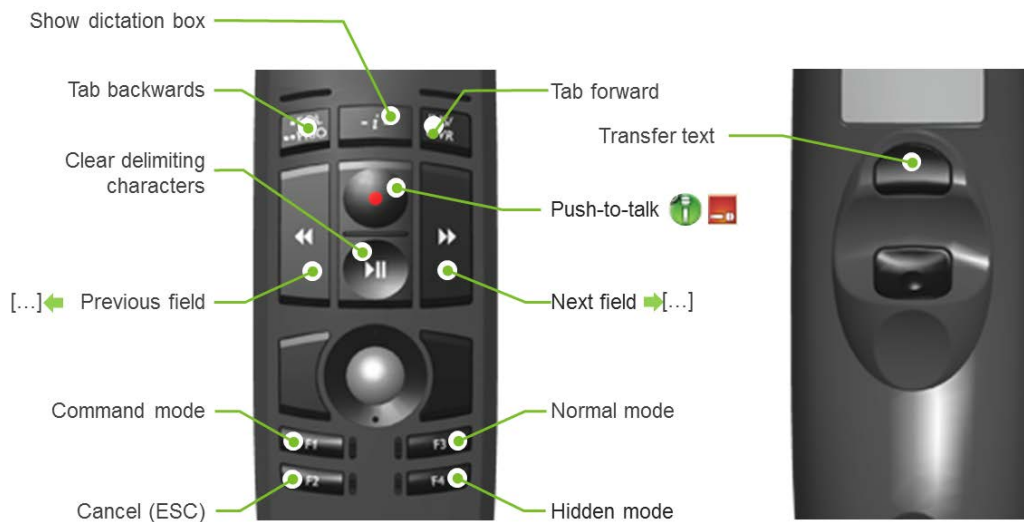
### ⊞ Please note:

- The profiles below have been developed and tested with a SpeechMike Premium 3500, Dragon NaturallySpeaking 12.5 with an US English and a German user profile.
- The profiles might react differently with other SpeechMikes, Dragon editions, recognition languages, and in different IT environments.
- Therefore **we accept no responsibility** for any problems arising with the delivered profiles on the CD.

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## MEDICAL PROFILE 1 – PUSH-TO-TALK

This profile is optimized for medical environments where authors are used to dictate in the **Push-to-talk** mode.



**Note:** to use Dragon commands on the function keys F1, F2, and F3 please make sure that the “scroll function” is disabled in the SpeechMike device settings.

Command/Description
<b>Push-to-talk:</b> Switches the Dragon microphone ON when pressed and OFF when released.
<b>Clear delimiting characters:</b> Deletes all left over fields that are identified with a set of delimiting characters.
<b>Next field:</b> Jumps to the next field that is identified with a set of delimiting characters ( [ ] )
<b>Previous field:</b> Jumps to the previous field that is identified with the delimiting characters ( [ ] )
<b>Tab backwards:</b> Sends a “Shift+Tab” keystroke to the application
<b>Tab forward:</b> Sends a “Tab” keystroke to the application
<b>Show dictation box:</b> Opens the Dragon dictation box that allows dictating and editing text in applications that are not fully supported by Dragon. <b>Note:</b> the ‘-i-’ button is only available in SpeechMike Premium button devices
<b>Switch to command mode:</b> Switches the recognizer to command mode for faster command recognition. Only commands are recognized.
<b>Cancel:</b> Sends an ESC command to the application. If the dictation box is opened it is closed without transferring text to the text editor.
<b>Switch to normal mode:</b> This is the default mode for speech recognition. All commands are available.
<b>Switch to hidden mode:</b> Sends the dictation box to hidden mode. All recognized text is sent to the dictation box in the background. <b>Note:</b> this function only works with Dragon Medical Practice Edition
<b>Transfer text:</b> When clicked while the dictation box is open it transfers the text dictated in the Dictation Box to the target application. The Dictation Box then closes.

### Microphone mute

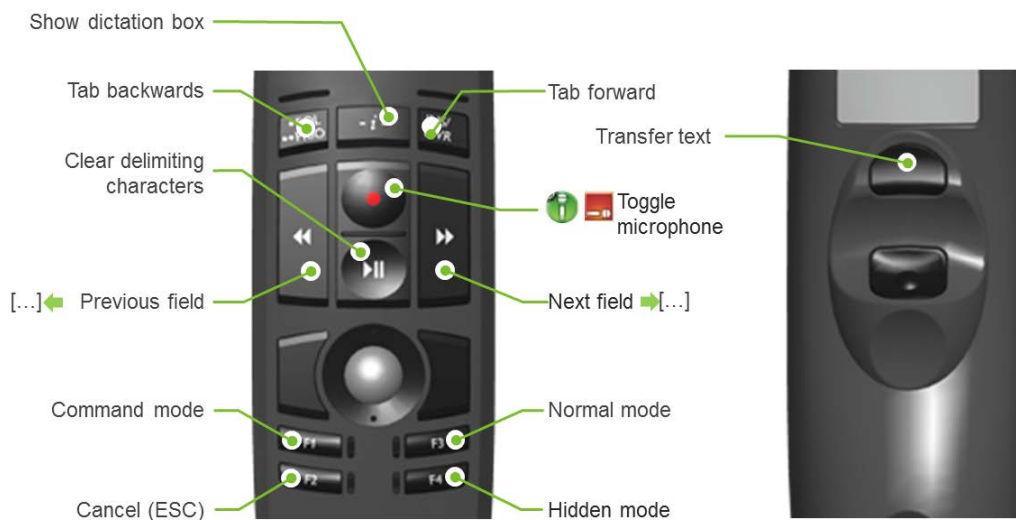
To enable faster microphone on/off reactions the microphone mute option is set to:  
MUTE DRAGON'S MICROPHONE WHEN STOPPING RECORDING

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## MEDICAL PROFILE 2 – RECORD TOGGLE

This profile is optimized for medical environments where authors are used to dictate with **record toggle** mode.



**Note:** to use Dragon commands on the function keys F1, F2, and F3 please make sure that the “scroll function” is disabled in the SpeechMike device settings.

Command/Description
<b>Toggle microphone:</b> Toggles the microphone ON and OFF on every button click
<b>Clear delimiting characters:</b> Deletes all left over fields that are identified with a set of delimiting characters.
<b>Next field:</b> Jumps to the next field that is identified with a set of delimiting characters ( [ ] )
<b>Previous field:</b> Jumps to the previous field that is identified with the delimiting characters ( [ ] )
<b>Tab backwards:</b> Sends a “Shift+Tab” keystroke to the application
<b>Tab forward:</b> Sends a “Tab” keystroke to the application
<b>Show dictation box:</b> Opens the Dragon dictation box that allows dictating and editing text in applications that are not fully supported by Dragon. <b>Note:</b> the ‘-i-’ button is only available in SpeechMike Premium button devices
<b>Switch to command mode:</b> Switches the recognizer to command mode for faster command recognition. Only commands are recognized.
<b>Cancel:</b> Sends an ESC command to the application. If the dictation box is opened it is closed without transferring text to the text editor.
<b>Switch to normal mode:</b> This is the default mode for speech recognition. All commands are available.
<b>Switch to hidden mode:</b> Sends the dictation box to hidden mode. All recognized text is sent to the dictation box in the background. <b>Note:</b> this function only works with Dragon Medical Practice Edition
<b>Transfer text:</b> When clicked while the dictation box is open it transfers the text dictated in the Dictation Box to the target application. The Dictation Box then closes.

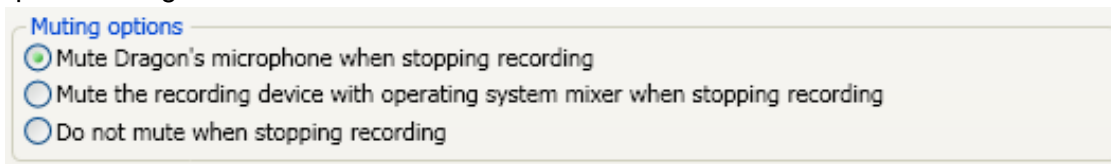
### Microphone mute

To enable faster microphone on/off reactions the microphone mute option is set to:  
MUTE DRAGON'S MICROPHONE WHEN STOPPING RECORDING

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## MICROPHONE MUTE OPTIONS FOR SPEECH RECOGNITION



The Speech Control application control includes 3 microphone mute options for recordings with speech recognition:





### MUTE DRAGON'S MICROPHONE WHEN STOPPING RECORDING

Dragon takes over microphone control.

Once recording is stopped users have to wait until the **Dragon microphone** becomes red () before they can continue recording (from Speech Control 2.5).

By enabling this option, the Dragon's microphone on the system tray (or on the Dragon bar) indicates whether recording has started () or stopped () .


 **Note:** Starting recording is only possible when Dragon has stopped recording before.

 **IMPORTANT:** If you have the “*Mute Dragon's microphone when stopping recording*” option enabled wait until **all text** has been completely **recognized** and transcribed to the text editor's window.  
Otherwise Dragon NaturallySpeaking might drop the words, or commands which have not been recognized yet.

### MUTE THE RECORDING DEVICE WITH OPERATING SYSTEM MIXER WHEN STOPPING RECORDING


With this option the microphone is muted via Windows after record stop.  
Users can frequently stop and start recording (from Speech Control 2.6).

If this option is enabled, the **Record LED** on the **Philips SpeechMike** indicates whether Dragon is still recognizing or not. With this option it is possible to frequently stop and start recording, just by watching the LED on the Philips dictation device for status information. The status of the Dragon microphone on the system tray (or on the Dragon bar) should be ignored.

 **Note:** This option is enabled by default.









### DO NOT MUTE WHEN STOPPING RECORDING

With this option Dragon leaves the microphone turned on as long as sound is available after RECORD/STOP.







Starting recording is only possible when Dragon has stopped recording () , which is indicated by the Dragon's microphone on the system tray (or on the Dragon bar).

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## QUICK START GUIDE - CENTRAL CONFIGURATION ROLLOUT

1		Install SpeechControl 3.3 on your administrator's computer
2		<p>Create the 'Central configuration root folder' on the network share to which all users have access.</p> <p>If users shall not create individual configurations <b>restrict</b> the users folder access rights to 'read only'.</p>
3		Import an appropriate profile from the <..\Tools\Application Control Profiles> folder on the SpeechControl CD.
4		<b>Optional:</b> Edit the application control configuration according to your requirements
5		Click 'Apply' to test the changed settings.
6		When finished click 'Export' to save the ' <i>AppControlConfig.7.0.xml</i> ' configuration file to the ' <b>Central configuration root</b> ' folder on the network share.
7		Roll out SpeechControl 3.3 to the user PCs in the network by local installation with the 'Customized' option, or with the silent setup options. <b>Do not forget to specify the 'Central configuration root folder' path.</b>
8		<p><b>FINISHED!</b></p> <p>When users start up SpeechControl the central configuration file is loaded.</p>

## QUICK START GUIDE – MODIFYING CENTRAL CONFIGURATION

1	 Import	Import the ' <i>AppControlConfig.7.0.xml</i> ' from the 'Central configuration root folder' on the network share
2		Edit the application control configuration according to your requirements
3	 Apply	Click 'Apply' to test the changed settings.
4	 Export	When finished click 'Export' to save the ' <i>AppControlConfig.7.0.xml</i> ' configuration file to the ' <b>Central configuration root</b> ' folder on the network share.
5		<b>Optional:</b> Delete the users' configuration subfolders in case the configuration shall be rolled out to all users. <b>Note:</b> The users' individual settings will be deleted!
6		<b>FINISHED!</b> When users start up SpeechControl the central configuration file is loaded.



## TROUBLESHOOTING (DRAGON) PROBLEMS

In this chapter you can find some hints and tips that can help solve potential problems with SpeechMike, SpeechControl, and Dragon.

### Preconditions

Before starting to troubleshoot SpeechMike or SpeechControl problems we highly recommend to update the SpeechMike firmware and the SpeechControl software to the latest version:

- Update your SpeechMike III or SpeechMike Premium to firmware version 2.19 or later.
- Update SpeechControl to Version 3.2 build 330 or later

 **Note:** Information about the SpeechMike firmware version can be found by clicking the  button in SpeechControl.

Information about the SpeechControl version can be found by clicking  → [About](#)

### Step 1

Check if the SpeechMike trackball is working.

By doing this you can find out, whether the SpeechMike itself has a problem or not.

If the SpeechMike trackball does not react, please check whether the SpeechMike USB cable is connected correctly. If this is the case please reconnect your SpeechMike to the PC.

### Step 2

Click on the record button (or move the slider to record) on the SpeechMike and check whether SpeechControl reacts on this button event. In the “application control” tab the corresponding button of the SpeechMike graphic is highlighted in yellow.




By doing this you can identify whether the buttons events are routed through to the SpeechControl application.

### Step 3

Click on the Dragon icon  to enable/disable recording.

Then try to start recording again from the SpeechMike.

By doing this you sometimes can get Dragon out of an infinitive loop, where no further command of the SpeechMike is accepted.

 **Note:** In some rare cases the SpeechControl timeout window will appear which informs you, that Dragon has stopped responding. In this case the connection from SpeechControl to Dragon is reinitialized and the user is able to continue working by clicking on a SpeechMike button.

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## OTHER MEASURES TO REDUCE THE RISK OF POTENTIAL GLITCHES

### Eliminate the play function

According to our experience Dragon sometimes has problems when fast switching between record and play. Fast switching between record and play is happening especially on SpeechMike slider devices, where users unintentionally switch from RECORD over STOP to PLAY mode.

In most cases it is not really necessary, to play back the recorded sound, because the user is seeing the recognized text on the screen anyhow.

By eliminating the play function users can avoid an overload of sent commands to the Dragon interface, which makes the utilization of the SpeechMike with Dragon even more agile.

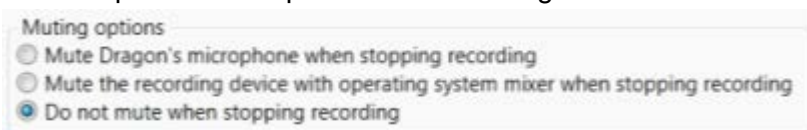
To do that simply delete the **PLAY function** from the **PLAY button** in the SpeechControl “Application Control” tab.



The user still could “over switch” the slider, but that wouldn’t send any unintentional PLAY command to Dragon.

### Change the microphone mute option

SpeechControl has 3 built in microphone mute options. These microphone mute options shall help to either improve the responsiveness of Dragon or to the increase stability of the interface.




- With the **topmost option** Dragon immediately reacts on SpeechMike button events. The disadvantage is that sometimes the last utterance of a spoken sentence is swallowed by Dragon, because of an unexpected interruption of the recognition process.
- With the **middle option**, SpeechControl mutes the microphone input level with the Windows mixer, while Dragon is still recognizing the last utterance. This is the default setting, because Dragon showed the least problems in the past with this setting, but this option does not react as agile as the topmost setting.
- With the **lowermost option** SpeechControl does not immediately send SpeechMike button commands to Dragon. Dragon continues recognizing until the last utterance of sound is recognized and written to the text editor. Only when Dragon has finished recognition SpeechControl would send the following commands to Dragon  
The disadvantage of this setting is, that while Dragon is recognizing, any ambient sound can also lead to unintended recognized text, but this risk is dramatically reduced with SpeechMike Premium.  
With this setting Dragon might not react as instantly as with the other 2 microphone mute options.

## Check the installed Direct X version on the PC

Whenever we need to analyze issues we need a starting point. This starting point should always be an up-to-date operating system including all fixes as well as the latest drivers.

According to our experience this also has to include the latest Direct X drivers, because old Direct X drivers can cause issues.

 **Background information:** for example, if you need to locate a window in a window you depend on the information from the graphic engine e.g. which window is active, what is the size of the window, and where is the cursor located.

If an application like Dragon does not get the correct feedback, it cannot put the text in the appropriate target window and errors can happen. Therefore it is important that the Direct X drivers are up-to-date and not defect.

## Crosscheck Microsoft Word Plugins

In some occasions we have experienced, that the Microsoft Word integration of Dragon might lead to a freeze of the Dragon application. Then only closing of Microsoft Word helped to unfreeze Dragon. Try to disable all interfaces to Microsoft Word (e.g. by disabling the natural language command settings) to improve the behavior.

## DISABLING AUTOMATIC FIRMWARE UPGRADES

To keep the SpeechMike firmware up-to-date SpeechControl 3.3 includes automatic firmware upgrades for SpeechMike Air, SpeechMike 3 and SpeechMike Premium.

If required you can disable this feature by adding a registry key that points to an empty download link:

```
<HKEY_LOCAL_MACHINE>\Software\Philips Speech\Device Control Center\  
SpeechMikeManifestURL- REG_SZ
```

or

```
<HKEY_CURRENT_USER>\Software\Philips Speech\Device Control Center\  
SpeechMikeManifestURL - REG_SZ
```

 **Note:** we do not recommend to disable the automatic firmware upgrade function

## USB 3.0 PORT DRIVER ISSUES

If the SpeechMike is plugged into a USB 3.0 port in some cases the communication of the PC with the SpeechMike is corrupted by the operating system USB drivers.

Following workarounds are recommended:

**Workaround 1:** Crosscheck whether there are new USB Chipset drivers for the used operating system on the homepage of the USB chipset manufacturer or the motherboard manufacturer of your PC.

**Workaround 2:** Use an external USB hub to which you connect the SpeechMike

**Workaround 3:** Connect the SpeechMike to a USB 2.0 port

## IT REQUIREMENTS

### PC requirements

- Pentium IV with 1GHz
- 1 GB RAM
- 250 MB for Microsoft .NET Framework
- 50 MB for application
- Powered USB port (for USB device)

### Software requirements

- Microsoft Windows® Vista
- Microsoft Windows® 7/8

For all listed operating systems, it is recommended that the latest service pack available is applied before installing SpeechControl.

## SPEECH RECOGNITION SOFTWARE

SpeechControl 3.3 has been tested with the following speech recognition applications:

- Dragon NaturallySpeaking Professional 11/12
- Dragon NaturallySpeaking Legal 11/12
- Dragon Medial Practice Edition 2

## SUPPORTED SPEECHMIKES

SpeechControl 3.3 supports following SpeechMike versions:

- SpeechMike Air 3000
- SpeechMike Air 3010
- SpeechMike Air 3020
- SpeechMike Pro 3200
- SpeechMike Classic 3210
- SpeechMike Classic 3220
- SpeechMike Barcode 3300
- SpeechMike Barcode 3310
- SpeechMike Premium 3500
- SpeechMike Premium 3510
- SpeechMike Premium 3520
- SpeechMike Premium Barcode 3600
- SpeechMike Premium Barcode 3610



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