Client installation guide

For:

Nuance[®] **Dragon[®] Professional** Group

Nuance[®] Dragon[®]Legal Group

Nuance[®] Dragon[®] Law Enforcement



Copyright

Dragon Professional Group, Dragon Legal Group, Dragon Law Enforcement, v15.

2017 Nuance Communications, Inc.

This material may not include some last-minute technical changes and/or revisions to the software. Changes are periodically made to the information provided here. Future versions of this material will incorporate these changes.

No part of this manual or software may be reproduced in any form or by any means, including, without limitation, electronic or mechanical, such as photocopying or recording, or by any information storage and retrieval systems, without the express written consent of Nuance Communications, Inc. Specifications are subject to change without notice.

Copyright © 2017 Nuance Communications, Inc. All rights reserved.

Nuance, ScanSoft, the Nuance logo, the Dragon logo, Dragon, DragonBar, NaturallySpeaking, NaturallyMobile, RealSpeak, Nothing But Speech (NBS), Natural Language Technology, Select-and-Say, MouseGrid, and Vocabulary Editor are registered trademarks or trademarks of Nuance Communications, Inc. in the United States or other countries. All other names and trademarks referenced herein are trademarks of Nuance Communications or their respective owners. Designations used by third-party manufacturers and sellers to distinguish their products may be claimed as trademarks by those third-parties.

Adobe and Acrobat are registered trademarks of Adobe Systems Incorporated. AMD is a trademark of Advanced Micro Devices, Inc. America Online is a registered trademark of America Online, Inc., a division of AOL Time Warner. Corel and WordPerfect are registered trademarks of Corel Corporation. iPAQ is a registered trademark of the Hewlett-Packard Company. Lotus and Lotus Notes are registered trademarks of Lotus Development Corporation. Macromedia Flash is a trademark of Macromedia, Inc. Microsoft, Outlook, Windows, Windows NT, Visual Basic, and PowerPoint are trademarks or registered trademarks of Microsoft Corporation. Mozilla and Mozilla Thunderbird are trademarks or registered trademarks of the Mozilla Foundation. Palm OS is a registered trademark of PalmSource, Inc. or its affiliates. Panasonic is a registered trademark of the Matsushita Electric Industrial Co., Ltd. Pentium is a registered trademark of Intel Corporation. Sony and Memory Stick are registered trademarks of the Sony Corporation. Voice It, the Voice It logo, and Voice It Link are trademarks or registered trademarks of VXI Corporation.

Disclaimer

Nuance makes no warranty, express or implied, with respect to the quality, reliability, currency, accuracy, or freedom from error of this document or the product or products referred to herein and specifically disclaims any implied warranties, including, without limitation, any implied warranty of merchantability, fitness for any particular purpose, or non-infringement.

Nuance disclaims all liability for any direct, indirect, incidental, consequential, special, or exemplary damages resulting from the use of the information in this document. Mention of any product not manufactured by Nuance does not constitute an endorsement by Nuance of that product.

Notice

Nuance Communications, Inc. is strongly committed to creating high quality voice and data management products that, when used in conjunction with your own company's security policies and practices, deliver an efficient and secure means of managing confidential information.

Nuance believes that data security is best maintained by limiting access to various types of information to authorized users only. Although no software product can completely guarantee against security failure, Dragon software contains configurable password features that, when used properly, provide a high degree of protection.

We strongly urge current owners of Nuance products that include optional system password features to verify that these features are enabled! You can call our support line if you need assistance in setting up passwords correctly or in verifying your existing security settings.

Published by Nuance Communications, Inc., Burlington, Massachusetts, USA Visit us on the Web at www.nuance.com. Links to our international web sites are shown there. 12/17/2018

Contents

DPG-DLG-DLE_ClientInstallationGuideCover_v1 1
Copyright 2
Contents 4
Chapter 1: About this guide
Guide overview
Audience
About Dragon
Physical Architecture
Additional resources
Documentation
Training10
Support
Chapter 2: Preparing to install Dragon11
Checklist—Planning the client installation12
Preparing for an installation
Storage space considerations
Assigning access
Assigning permissions for Roaming users15
Preparing client workstations
Turning off Windows Automatic Updates16
Anti-virus recommendations16
Open Required Ports
Recommended virtual memory settings16
Dragon system requirements
Dragon file structure
Windows 7, Windows 8.1, and Windows 1018
Accessing program files
Chapter 3: Initial Installation of Dragon
Install Dragon and choose the default settings
Initial installation
Natspeak.exe Command Line options
Chapter 4: Installing the Dragon client with settings
Overview—Installing the Dragon client with initial settings
Prerequisites
Installation methods
Push installations

Installing the same Dragon configuration on multiple computers	
Performing an administrative installation with a batch file	31
Understanding the script in admininstall.bat	
Modifying admininstall.bat	
Command Line installation with msiexec.exe	33
Installing the same configuration on additional computer(s)	
Chapter 5: Configure the Dragon Client for Nuance Management Center	34
Associating Dragon clients with the Nuance Management Center server or Local Authenticator	
Converting from Stand-Alone mode to NMS mode	
Appendix A: Modifying nsdefaults.ini	
Dragon client settings in nsdefaults.ini	
Auto-Formatting dialog box	
General Settings	38
Options dialog	43
PowerMic settings	43
Administrative Settings dialog	
Roaming tab settings	
NMS settings	
Appendix B: Options for MSI installations	53
MSI properties for Dragon installations	54
Sample command lines	
Feature variables to set through the ADDLOCAL or ADVERTISE properties	
Speech options	
MSI options for scheduled tasks	60
Extracting MSI/MST files from the Dragon setup.exe	61
Appendix C: Using Dragon over a remote desktop connection	63
Remote desktop connection support	64
System Requirements for using Dragon through a remote desktop connection	64
Configuring the Windows server	
Configuring Windows Server 2012 R2 or Windows Server 2016	
Configuring Windows Server 2008 R2	
Configuring other server operating systems	69
Configuring the Dragon clients	70
Using Dragon on a Server Operating System	71

Chapter 1: About this guide

(Guide overview	7
	About Dragon	8
	Additional resources	. 9

Guide overview

The *Dragon Installation Guide* provides information on installing and configuring the Dragon client on one or more computers. The guide is available in PDF format from the Nuance Support web site.

Audience

This guide is intended for IT administrators and Dragon administrators whose responsibility is to install and configure Dragon clients on one or more computers.

This guide assumes you have experience in software installation and using Command Line options.

About Dragon

Dragon allows users to create reports, spreadsheets, presentations and other documentation more efficiently with fast, accurate dictation and transcription. Dragon also includes voice commands that allow users to perform everyday tasks without using the mouse or keyboard. For example, use voice commands to:

- Correct and format text
- Access buttons and menus in supported programs, including Microsoft Word, Corel WordPerfect, WordPad, and more

Administrators or users can also create custom words and commands and share them with team members.

Dragon can be installed on each client computer manually (see "Install Dragon and choose the default settings" on page 22) or through a push install (see "Push installations" on page 28).

Physical Architecture

The Dragon client can be configured to communicate with Nuance Management Center, allowing administrators to manage all Dragon clients from a single central console. The physical configuration of Dragon includes:

- Dragon clients—Client computers with Dragon installed
- Roaming user storage location (Standalone mode only)—A network-accessible storage location for the Master Roaming user profiles. May be a file server, Web server, or any location accessible to other computers within your network.

For more information on the Roaming feature, see the Dragon Help.

- Application server—(Nuance Management Center/NMS mode users only) The NMC server. Stores user accounts, settings, and administrative information. Can be a single machine, or, in large installations, can be multiple servers load-balanced by a network traffic switch. Can be the Nuance-hosted NMC server in the cloud, or a server that you install and host on-premise.
- **Database server**—(Nuance Management Center/NMS mode users only) Hosts the SQL database that stores your data, like sites, groups, and licenses. Can be the same physical machine as your application server, or a separate database server.

For more information on each Dragon component, see "Additional resources" on page 9.

Additional resources

The following resources are available in addition to this guide to help you manage your Dragon installation.

Documentation

Document	Description	Location
Dragon Help	Full online Help system that includes commands and instructions for dictating, correcting, and more with Dragon.	Dragon Help. When Dragon is open, click the Help icon () on the DragonBar, and then select Help Topics .
Dragon Release Notes	New features, system requirements, client upgrade instructions, and known issues.	Dragon Help. Do the following: 1. When Dragon is open, click the Help icon () on the DragonBar, and then select Help Topics. 2. Click Get started. 3. Click Dragon release notes.
Dragon Wireless Headset User Guide	Instructions for connecting and using your Bluetooth headset with Dragon.	Dragon Support web site
Dragon Workbook	Instructions and training exercises for performing Dragon's basic tasks, like dictating and correcting text by voice.	Dragon Support web site
Dragon Professional Group Citrix Administrator Guide	Hardware, software, and network requirements for deploying Dragon in a network of client computers that connect to a Citrix server to access published applications.	Dragon Support web site
Nuance Management Center	Instructions for installing and configuring the	Dragon Support

Document	Description	Location
Server Installation and Configuration Guide	NMC server, database, and NMC console, and instructions for configuring single sign-on authentication.	web site
Nuance Management Center Administrator Guide	Information on creating and maintaining objects and managing Dragon clients from the NMC console.	Dragon Support web site

Training

Nuance provides several Dragon training offerings, like webinars, demos, and Nuance University online training courses. For more information, see the Dragon Support web site.

Support

The Dragon Support web site provides many resources to assist you with your Dragon installation, like forums and a searchable knowledgebase. For more information on Support offerings, see the Dragon Support web site at:

http://www.nuance.com/voice-and-document-productivity/dragon/support/dragon-nat-urallyspeaking.html

Chapter 2: Preparing to install Dragon

Checklist—Planning the client installation	12
Preparing for an installation	13
Storage space considerations	
Assigning access	15
Assigning permissions for Roaming users	15
Preparing client workstations	
Turning off Windows Automatic Updates	16
Anti-virus recommendations	16
Open Required Ports	
Recommended virtual memory settings	
Dragon system requirements	17
Dragon file structure	
Windows 7, Windows 8.1, and Windows 10	18
Accessing program files	19

Checklist—Planning the client installation

Use this checklist to help you prepare for client installations.

Task	Reference
Set default options at the site and group level for PowerMic settings and hot keys in the NMC console (NMS mode only).	Nuance Management Center Administrator Guide
Create Sites, Groups, and Users and assign licenses in the NMC console.	Nuance Management Center Administrator Guide
Assign access to the necessary folders and Registry keys on client machines.	"Assigning access " on page 15
Prepare client workstations.	"Preparing client workstations" on page 16
Perform an initial installation of the Dragon client.	"Initial installation" on page 22
Set up the configuration files as needed, and then copy them to a directory you can access from other computers.	"Natspeak.exe Command Line options" on page 23
Install the Dragon client on users' machines using one of the following methods:Manual install from a DVD.Push install with an MSI.	 "Installing the same Dragon configuration on multiple computers" on page 30 "Command Line installation with msiexec.exe" on page 33
Associate Dragon clients with the NMC server or Local Authenticator (NMS mode only).	"Associating Dragon clients with the Nuance Management Center server or Local Authenticator" on page 35

Preparing for an installation

Before installing, modifying, or upgrading Dragon:

- Install any pending Windows updates, and then restart the computer.
- Turn off or disable any antivirus software until installation is complete. Installation can sometimes trigger a false virus report.
- Close all open applications.
- Read "Checklist—Planning the client installation" on page 12.
- Ensure your system meets the requirements before attempting to install Dragon.

For more information, see "Dragon system requirements" on page 17.

For upgrade instructions, see the Dragon client Help at:

http://www.nuance.com/products/help/dragon15/dragon-for-pc/enx/professionalgroup/Content/ReleaseNotes/DG_relnotes.htm#UpgradeInstructions

Installation considerations

- Administrator rights are not required to create a user profile or use the software after installation. Note that if an administrator creates a user profile while logged in as an administrator, that profile is not accessible to users with restricted privileges.
- Users are permitted to create multiple profiles, provided each profile is for one person. Additional users must purchase a separate license for Dragon. Volume license agreements are available.

Storage space considerations

Each Dragon user must have his or her own user profile. This is a set of files in which Dragon stores information about each user's voice, frequently-used words and phrases, optional settings, and custom commands (if applicable). Each computer on which Dragon is installed must have enough free space for the required user profile(s).

Use the following guidelines for allocating disk space on your system. The actual amount of disk space varies from site to site.

To set the amount of data to store:

1. From the DragonBar, select **Tools>Administrative Settings**.

The Administrative Settings dialog box opens.

2. Select the **Disk space reserved for network archive** option.

For each Master Roaming user profile:

- 90 MB for each Roaming user profile
- 21 MB for each additional vocabulary you add for the user profile
- 70 MB for each additional dictation source you add for the user profile
- 1000 MB for Acoustic Optimizer data associated with each dictation source of each user profile

For each Local Roaming user profile:

- 90 MB for each Roaming user profile
- 21 MB for each additional vocabulary added for this user profile
- 70 MB for each additional dictation source added for this user profile
- 240 MB for Acoustic Optimizer data associated with each dictation source of each user profile

For each non-Roaming user profile:

• 127 MB of hard disk space

Dragon periodically creates a backup copy of a non-Roaming user profile and stores the copy on the local computer. In contrast, a Roaming user profile is stored in a network storage location and Dragon does not create a backup copy of a Roaming user profile.

An administrator should create backup copies of all Roaming user profiles on a regular basis.

Assigning access

To ensure that your Dragon network components can communicate with each other and that the network can function properly, you must assign permissions to all directories and access rights to administrator and user accounts on servers and clients as indicated below.

Location or registry key	Permissions level or type of access rights	Users affected	
Roaming user profiles folder (Optional)	Full read/write/modify permissions	Windows user accounts for all users dictating on Dragon clients	
C:\ProgramData\Nuance folder and all sub-folders	Full read/write/modify permissions	Windows user accounts for all users dictating on Dragon	
C:\Users\ <i><windows user<br="">ID</windows></i> >\AppData\ folder and all sub-folders	Full read/write/modify permissions	clients	
HKEY_LOCAL_ MACHINE\SOFTWARE\Nuance	Rights to update the registry to read/write to these keysWindows acc workstations	Windows accounts used on workstations running the	
HKEY_CURRENT_ USER\SOFTWARE\Nuance		Dragon client	

Assigning permissions for Roaming users

To ensure each dictating user has appropriate access to his or her user profile, you must give full read/write/modify permissions to all files and directories where the Roaming user profiles are located, even through http or https connections. This level of access ensures that when the user dictates, Dragon can interact with the Roaming user profiles effectively.

Each Windows user account that logs in to the Dragon client workstation should also have read/write/modify access to the Roaming user profiles, since the Dragon client frequently modifies these profiles.

Preparing client workstations

Turning off Windows Automatic Updates

After you set up each physical server or workstation, turn off Windows Automatic Updates. For each update Windows sends, install it first on a single test machine; update other machines only after you have determined that it does not disrupt the network.

Anti-virus recommendations

Nuance recommends that anti-virus software be installed on all Dragon servers and clients.

Open Required Ports

In the Windows OS on the DMPE client machine, open port 443 to allow DMPE to communicate with the NMC server.

Note: For DMPE UK, you must open port 443 before you enable NMS in the client (Administrative Settings>NMS tab).

Recommended virtual memory settings

Set Virtual Memory to 4092 on Windows Server, or to the maximum possible setting on workstations that have 4 GB of RAM.

Dragon system requirements

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

RAM	Minimum:
	• 4 GB for all operating systems.
CPU	Minimum: 2.2 GHz Intel® dual core or equivalent AMD processor. Faster processors yield faster performance.
Free hard disk space	 4GB if DVD installation, or 12GB if downloading installation files
Supported operating systems	 Windows 7, 8.1, and 10, 32-bit and 64-bit Windows Server 2008 R2 Windows Server 2012 Windows Server 2016
Other	 Internet Explorer 11 or the current version of Chrome for online Help and for installation if installing from the Web Microsoft .NET Framework version 4.5.2 or later Generally, the .NET Framework is pre-installed on Windows 7, 8.1, and 10 computers. If you do not have it installed, you are prompted to install it during Dragon's installation. Nuance does not provide the .NET Framework with your installation; you must download the installation file from microsoft.com. A DVD-ROM drive if installing from disk An audio input device capable of 16-bit recording for dictation For a list of recommended devices, see http://sup-
	 An internet connection to connect to the Nuance Management Center (NMC) Server

Dragon file structure

During installation, Dragon creates the following default folders for application and data file storage.

Note: Upgrading Dragon from an earlier version automatically relocates some directories and files.

Windows 7, Windows 8.1, and Windows 10

Dragon setup log (dgnsetup.log)

C:\ProgramData\Nuance\NaturallySpeaking15\logs

Dragon log

C:\ProgramData\Nuance\NaturallySpeaking15\logs\<Windows_User_Name>

User profiles

C:\ProgramData\Nuance\NaturallySpeaking15\Users

Upgrade log

C:\Users\<Windows_User_Name>\AppData\Roaming\Nuance\NaturallySpeaking15

Roaming user profiles (local folder)

C:\ProgramData\Nuance\NaturallySpeakingNuance\NaturallySpeaking15\RoamingUsers

Vocabularies and acoustic models

C:\ProgramData\Nuance\NaturallySpeaking15\Data

Custom words and commands

C:\ProgramData\Nuance\NaturallySpeaking15\custom\<Language>\

Program files

For 32-bit systems	For 64-bit systems
C:\Program Files\Nuance\	C:\Program Files (x86)\Nuance\
NaturallySpeaking15\Program	NaturallySpeaking15\Program

Help

For 32-bit systems	For 64-bit systems
C:\Program Files\Nuance\	C:\Program Files (x86)\Nuance\
NaturallySpeaking15\Help	NaturallySpeaking15\Help

Interactive Tutorial

For 32-bit systems	For 64-bit systems
C:\Program Files\Nuance\	C:\Program Files (x86)\Nuance\

For 32-bit systems	For 64-bit systems
NaturallySpeaking15\itutorial	NaturallySpeaking15\itutorial

Accessing program files

You can access the Dragon client and many associated utilities through the **Start** menu. Their location varies by operating system:

- Windows 7: Select Start > All Programs > Dragon.
 - Some utilities are located inside the **Dragon Tools** subfolder.
- Windows 8.1: From the **Start** screen, click the down arrow to show all applications. Scroll to find **Dragon**.
- Windows 10: Select Start > All apps > Dragon.

Chapter 3: Initial Installation of Dragon

Install Dragon and choose the default settings	
Initial installation	
Natspeak.exe Command Line options	23

Install Dragon and choose the default settings

Install Dragon on the client computer using the installation DVD. If you plan to install Dragon on multiple computers, run through an initial installation before attempting to install Dragon from a server. Use the initial client installation to set default values for Administrative and Auto-Formatting options. You can then install Dragon on other computers using the same options.

Notes:

- You must have Windows Administrator rights to install or uninstall Dragon.
- If you have more than one language, the installation process uses your operating system's language, if supported. If Dragon does not support your operating system language, the installer runs in English. You cannot install Dragon using a language other than the primary language. For example, if you install the German software on a French operating system, the installation interface is in French. If you install the German software on a Chinese operating system, the installation interface is in English.

Initial installation

To perform an initial installation of Dragon, run the setup.exe file from your installation DVD.

1. Insert the product DVD.

If the installation does not start automatically, run setup.exe from the DVD.

- 2. Follow the prompts to navigate through the wizard.
- 3. On the Region Selection screen, select a region to install, or select **All English regions** to install more than one region.

The region determines the accents and vocabularies available on this installation. Selecting a single region saves disk space, but users cannot create user profiles with an accent that is not included with the selected region.

- 4. On the same screen, select the **Advanced** check box to customize your settings, then click **Next**.
- 5. On the Advanced screen, select the following check boxes to display additional dialog boxes at the end of the installation. These dialog boxes allow you to choose settings that apply to all users dictating on this computer. You can then copy these settings to other installations.
 - Modify the application's settings for all user profiles—If selected, the Options dialog box appears.
 - **Modify the administrative settings**—If selected, the Administrative Settings dialog box appears.
 - Auto-Formatting options—If selected, the Auto-Formatting dialog box appears.
- 6. When each of the dialog boxes appears, select the options to apply to all client installations, and then click **OK**. The dialog boxes are:
 - **Options**—Select the default options for correction, hot keys, data storage, and other settings.

NMC users—Only options in the Commands tab are saved to the NMC server. All other settings are saved locally. • Auto-Formatting—Select the Auto-Formatting options.

NMC users—Administrators can also control these settings in the NMC console.

- Advanced—Select default settings on the following tabs:
 - **Roaming** (Stand-alone mode only)—Optionally enable and configure the Roaming feature.

Note: Some Roaming settings are saved in roamingdef.ini. To include Roaming user settings in future installations, you must pass this file to the ROAMINGUSERINI option. For more information, see "MSI properties for Dragon installations" on page 54.

- Miscellaneous (Stand-alone mode only)—Set other administrative options.
- Scheduled Tasks—Enable and schedule Accuracy Tuning (Stand-Alone mode only) and Data Collection tasks.
- NMS Settings—To configure the client to connect to the NMC server, select Enable NMS and enter the server address.

Note: You cannot use the NMC console to enable Nuance Management Center/NMS mode on client computers.

7. Click Install to begin the installation process.

The installation progress bar appears. The process may take several minutes.

8. When the installation is complete, click **Finish** to exit the InstallShield Wizard.

Dragon saves the configuration you created during setup in nsdefaults.ini. If you set up your installation for Roaming user profiles, there is also a file called roamingdef.ini. These files are located in:

C:\ProgramData\Nuance\NaturallySpeaking15

The .ini file(s) contains custom settings that you can apply to each of the Dragon installations you deploy. Retrieve nsdefaults.ini (and roamingdef.ini, if applicable) and copy to a directory you can access from the other client computers.

Note: To add or change settings in the .ini files after you complete your initial installation, see "Natspeak.exe Command Line options" on page 23. Otherwise, see "Overview—Installing the Dragon client with initial settings" on page 28.

Natspeak.exe Command Line options

To install the Dragon client on other computers with default settings, you must configure your initial installation using the natspeak.exe command line options. Dragon saves this configuration in the nsdefaults.ini file in:

```
C:\ProgramData\Nuance\NaturallySpeaking15
```

To create or modify nsdefaults.ini, perform the following steps on the workstation where you created the initial installation of Dragon:

- 1. Close Dragon if it is running.
- 2. Open a Command Prompt window:
 - Windows 7: Start > All Programs > Accessories > Command Prompt
 - Windows 8.1: From the **Start screen**, click the down arrow to show all apps, and then scroll to **Windows System > Command Prompt**
 - Windows 10: Start > All apps > Windows System > Command Prompt
- 3. Switch to the program directory. The default is:

C:\Program Files (x86)\Nuance\NaturallySpeaking15\Program

4. Enter the commands below to change the default configuration. All steps are optional; if you skip a step, your installation uses the default values for the associated options.

For more information on the individual dialog boxes and their settings, see the Dragon help.

• To open the Options dialog box, enter

natspeak.exe /SetDefaultOptions

In the dialog box, select the default options that should apply to all client installations, and then click **OK**.

• To open the Auto-Formatting dialog box, enter:

natspeak.exe /SetDefaultFormattingOptions

In the dialog box, select default Auto-Formatting options to apply to all client installations, and then click **OK**.

• To open the Administrative Settings dialog box, enter

natspeak.exe /SetDefaultAdministrativeOptions

In the dialog box, select settings to apply to all installations in the tabs, and then click **OK**.

5. The configuration you created running natspeak.exe is saved in nsdefaults.ini. If you configured Roaming users, you'll also see the roamingdef.ini file. By default, you can find configuration files here:

C:\ProgramData\Nuance\NaturallySpeaking15

6. When you have located nsdefaults.ini, verify that your option settings have changed. Double-click the nsdefaults.ini file to open it in a text editor. You should see values defined for the options you changed.

For information on the settings created in nsdefaults.ini, see "Modifying nsdefaults.ini" on page 37.

7. Include the newly created nsdefaults.ini file and, if applicable, roamingdef.ini, in your MSI package to distribute the file to all workstations where Dragon is installed.

For more information, see "Overview—Installing the Dragon client with initial settings" on page 28.

Other natspeak.exe options

Use these options from the command line:

Switch	Function
/SetAdministrativeOptions	Opens Administrative Options dialog box to change settings for the current installation.
	This switch does not affect nsdefaults.ini. Changes are saved for the local installation only.
/About	Shows the About dialog for the Dragon client.
/User <user profile=""></user>	Opens the specified user profile (Stand-alone mode only)
/User <username> <password></password></username>	Logs the user in to the Dragon client (NMS mode only).
/Trusted	Opens the Dragon client and performs a trusted login with Windows credentials (NMS mode only).
/LogOut	Logs the user out (NMS mode only).
/SaveandShutDown	Closes Dragon and saves user profile changes.
	This setting is for use in NMS mode only.
/ShutDown	Closes Dragon without saving user profile changes.
	This setting is for use in NMS mode only.
/Diagnose	Runs Dragon in diagnostic mode and exits. Information is saved to Dragon.log.
/FindAppData	Opens the AppData directory for the Dragon client.
/FindAppDataAllUsers	Opens the directory where the .ini files are stored.
/FindDragonLog	Opens the directory that contains Dragon.log.
/FindSetupLog	Opens the directory that contains the Dragon setup log (dgnsetup.log).
/FindUpgradeLog	Opens the directory that contains the upgrade log.
/Deactivate	Deactivates the license for the current Dragon client.
-rebuildmodels	Merges datapack files so that they can be used with Dragon.
	This process is performed automatically during product installation. You can repeat the process if, for example, you want to use a custom vocabulary.

Chapter 4: Installing the Dragon client with settings

Overview—Installing the Dragon client with initial settings	
Prerequisites	
Installation methods	
Push installations	
Installing the same Dragon configuration on multiple computers	
Performing an administrative installation with a batch file	
Understanding the script in admininstall.bat	
Modifying admininstall.bat	
Command Line installation with msiexec.exe	
Installing the same configuration on additional computer(s)	

Overview—Installing the Dragon client with initial settings

Use command line options to copy the settings you created in the initial Dragon installation to all your Dragon client installations.

Prerequisites

Before installing the Dragon clients:

- Have the Dragon serial number available. If you are installing or upgrading Dragon on multiple networked computers, have the group serial number available.
- Ensure all mapped drives you plan to use are mapped on each client computer where you are distributing the installation.
- Install any pending Windows updates on clients and restart as needed.
- Copy any .ini files you want apply to your installation to a central location so you can access them later.

Installation methods

- setup.exe—See "Installing the same Dragon configuration on multiple computers" on page 30
- Dragon 15.msi—See "Command Line installation with msiexec.exe" on page 33
- administall.bat—See "Performing an administrative installation with a batch file" on page 31

Note: If you selected **Enable Desktop Search Commands** on the Commands tab during the initial installation, you must also install Microsoft Search on the client computers before installing Dragon.

For information on MSI options used in all Command Line installations, see the Microsoft website: http://msdn.microsoft.com/en-us/library/aa367988(v=vs.85).aspx.

MSI options specific to Dragon client installations are available in "MSI properties for Dragon installations" on page 54.

Hints:

- The first time you run an installation from the command line, you should use the /qf option rather than /qn. This allows you to see prompts that help you determine any problems with the command line.
- If your path name is long or contains spaces, enclose it in quotation marks. Be sure to escape each quotation mark with a backslash: \".
- To ensure that you receive messages about any errors that occur during the installation, pass /L and one or more sub-options, followed by a log file name. You can send the log file to Nuance Technical Support, should any issues arise.

Push installations

Dragon includes a native Windows Installer (MSI) that allows you to install across a network to multiple client computers. You can use Dragon 15.msi or administall.bat to perform a push installation.

Several servers support this type of network installation:

- Windows Server 2008 R2 and 2012 x64
- Windows Server 2016
- System Management Server (SMS)
- Active Directory

Dragon supports the Active Directory Assign to Computers installation option.

Installing the same Dragon configuration on multiple computers

Use the following procedure to install with setup.exe in the command line from a single client machine.

Note: When you are using the setup.exe method, you must ensure that all flags and properties are within the same set of quotes, directly after /v, without a space.

- 1. Open a Command Prompt:
 - Windows 7: Start > All Programs > Accessories > Command Prompt
 - Windows 8.1: From the Start screen, click the down arrow to show all apps, and then scroll to Windows System > Command Prompt
 - Windows 10: Start > All apps > Windows System > Command Prompt
- 2. Insert the installation DVD and search for the directory where setup.exe is located.
- 3. In the Command Prompt window, switch to the setup.exe directory.
- 4. To install the configuration you created during the initial installation, enter the following, substituting your information as needed:

```
setup.exe /s /v"SERIALNUMBER=<SerialNumber>
INSTALLDIR=\"C:\Program Files (x86)\Nuance\NaturallySpeaking15\"
DEFAULTSINI=\"C:\<full_path>\nsdefaults.ini\"
/L*v C:\Logs\logfile.log"
```

To include Roaming network settings, include the option:

ROAMINGUSERINI=\"C:\<full_path>\roamingdef.ini\"

If you do not pass the ROAMINGUSERINI option, Dragon uses default Roaming network settings.

Performing an administrative installation with a batch file

A simple way to install Dragon from the command line is to perform an administrative installation using a .bat file. A script for performing a full administrative installation is provided in the administall.bat file included with your installer.

Caution: Only advanced administrators should perform an administrative installation.

To run the batch file:

- 1. Open an elevated command prompt:
 - Windows 7: Go to Start > All Programs > Accessories, then right-click Command Prompt and select Run as administrator.
 - Windows 8.1: From the **Start** screen, click the down arrow to show all apps, and then scroll to **Windows System**. Right-click **Command Prompt**, and select **Run as administrator**.
 - Windows 10: Go to Start > All apps > Windows System, then right-click Command Prompt and select Run as administrator.
- 2. In your installation folder, locate admininstall.bat and switch to that directory.
- 3. Enter administall.bat and follow it with the location of Dragon 15.msi. For example:

admininstall.bat "C:\<full_path>\Dragon 15.msi"

Understanding the script in admininstall.bat

Below are some of the lines from the script in the administall.bat file, a batch file that decompresses setup files into a network location for installation using SMS or another service.

Near the top of the batch file are the lines that check the parameters entered and, if the parameter passed is not acceptable, execute a routine that handles that situation:

:rem //Check and analyze input parameters

if .%1.==.. goto bad_args

If the arguments you pass when you enter the command are acceptable, the batch file sets the NETWORK_DNS_DIR to the location of Dragon 15.msi:

set NETWORK_DNS_DIR=%1%

When you run the administall.bat file, the file installs Dragon using a single line of code:

```
echo Installing Dragon...
setup.exe /a /s /v"/qb TARGETDIR=%NETWORK_DNS_DIR% /Liwmo!e+ %TEMP%\
admininstall.log"
```

The above code calls the setup.exe command and passes it:

- /a Indicates an administrative installation.
- /s Indicates a silent installation.
- /v Indicates msiexec options to follow, enclosed in quotation marks. The included options are:

- /qb Indicates a basic user interface display during the installation process.
- TARGETDIR Indicates the target directory for an administrative installation.
- /L Indicates the type of data that should be included in the log and where the log is saved. A silent installation of Dragon does not display any messages. Check the setup log for any installation messages or errors.

When the installation of Dragon succeeds or fails, the batch file displays an appropriate message. The remainder of the file handles errors and cases where bad arguments are passed on the command line.

Modifying admininstall.bat

You can modify admininstall.bat by adding to and changing the options you pass for installing Dragon. See "MSI properties for Dragon installations" on page 54 for information on the MSI options available for Dragon installations.

Command Line installation with msiexec.exe

Another way to install Dragon from the command line on several client computers is to use the msiexec.exe program from Microsoft.

The compiled MSI file, Dragon 15.msi, is located on your installation DVD.

You can double-click the .msi file to start the InstallShield Wizard. However, to take advantage of available command line options, use the command line installation process described below.

Installing the same configuration on additional computer(s)

- 1. Open a Command Prompt:
 - Windows 7: Start > All Programs > Accessories > Command Prompt
 - Windows 8.1: From the Start screen, click the down arrow to show all apps, and then scroll to Windows System > Command Prompt
 - Windows 10: Start > All apps > Windows System > Command Prompt
- 2. On your installation DVD, find the directory where Dragon 15.msi is located.
- 3. In the Command Prompt window, switch to the Dragon 15.msi directory.
- 4. Retrieve the customized nsdefaults.ini file from the computer where you performed the initial installation.
- 5. To install the configuration you created during the initial installation, enter the following, substituting your information as needed:

```
msiexec /i "Dragon 15.msi"
SERIALNUMBER=<SerialNumber>
DEFAULTSINI="<full_path>\nsdefaults.ini"
/L*v "C:\Logs\logfile.log" /qn
```

To include Roaming network settings, include the option:

```
ROAMINGUSERINI=\"C:\<full_path>\roamingdef.ini\"
```

If you do not pass the ROAMINGUSERINI option, Dragon uses default Roaming network settings.

Chapter 5: Configure the Dragon Client for Nuance Management Center

Associating Dragon clients with the Nuance Management Center server or Local	
Authenticator	35
Converting from Stand-Alone mode to NMS mode	36

Associating Dragon clients with the Nuance Management Center server or Local Authenticator

To allow Dragon clients to work with Nuance Management Center, you must enable Nuance Management Center/NMS mode on each client. You can set up the connection during your initial installation (for more information, see "Initial installation" on page 22) or follow the steps below to manually enable Nuance Management Center/NMS mode.

Note: For information on installing and configuring NMC servers, see the *Nuance Management Center Server Installation and Configuration Guide*.

- 1. Open Dragon if it is not already running.
- 2. From the DragonBar, select Tools>Administrative Settings.

To save your changes to nsdefaults.ini for use in future installations, access the Administrative Settings dialog using the natspeak.exe command line options (see "Natspeak.exe Command Line options" on page 23).

3. If a warning dialog appears, click **Proceed**.

Your operating system may require you to enter your user name and password.

- 4. Click the NMS Settings tab.
- 5. Select the Enable NMS check box.
- 6. In the Server field, enter one of the following:
 - If you are using the Nuance-hosted NMC server in the cloud with native NMC authentication, enter the address of the cloud server. You should have received this address in your Welcome email from Nuance.
 - If you are using the Nuance-hosted NMC server in the cloud with Active Directory single sign-on authentication, enter the address of the server on which the Local Authenticator is installed.
 - If you are using your own NMC server on premise, enter the address of your NMC server.
- 7. Click the appropriate radio button in the Login Options field.
 - Select **Provide a login name and password** if you are using native Nuance Management Center authentication.
 - Select **Use Windows single sign-on** if you configured your users for Active Directory single sign-on authentication.
- 8. Click Apply, and then click OK.

When the Dragon client is connected to the NMC server, users can log in to the user account that an administrator has created in the NMC console.

If the user has no existing profile, the New User Wizard appears after login.

Converting from Stand-Alone mode to NMS mode

If your organization decides to purchase Nuance Management Center after configuring Dragon for Stand-Alone use, you must configure all Dragon clients to connect to Nuance Management Center. Use one of the methods below to convert your clients.

The methods require modifying the default Dragon settings in nsdefaults.ini. For more information on nsdefaults.ini, see "Modifying nsdefaults.ini" on page 37.

Option 1

Create a revised nsdefaults.ini file to enable NMS mode and provide the server address.

 Add the following lines to a master copy of nsdefaults.ini under [nssystem.ini Settings]:

Connect to NMS=1 Default NAS Address=<server address>

For more information on NMC settings in nsdefaults.ini, see "Roaming tab settings" on page 48.

If you prefer, you can use natspeak.exe to add these parameters through the **NMS Settings** tab of the Administrative Settings dialog box. For more information, see "Natspeak.exe Command Line options" on page 23.

2. Replace the nsdefaults.ini file in C:\ProgramData\Nuance\NaturallySpeaking15 on all client computers with the edited master copy.

Caution: Replacing nsdefaults.ini on client machines causes users to lose all their existing Auto-Formatting, Options, and Administrative settings.

Option 2

To avoid overwriting user settings, you can manually modify the settings on each client computer. Choose one of the following methods:

- Repeat step 1 above for the nsdefaults.ini file in the directory
 C:\ProgramData\Nuance\NaturallySpeaking15 on each client computer.
- Manually configure the settings in the NMS Settings tab of the Administrative Settings dialog box.

For more information, see the Dragon help.

Because this method requires visiting each computer, it is not recommended for larger organizations.
Appendix A: Modifying nsdefaults.ini

Dragon client settings in nsdefaults.ini	
Auto-Formatting dialog box	
General Settings	
Options dialog	
PowerMic settings	43
Administrative Settings dialog	46
Roaming tab settings	48
NMS settings	

Dragon client settings in nsdefaults.ini

Many Dragon client settings are included in the nsdefaults.ini file you created when configuring your initial installation (see "Installing the client" on page 1 or "Natspeak.exe Command Line options" on page 23). The settings that are included vary based on the options you chose to configure during this initial configuration.

You can manually revise the settings in nsdefaults.ini, if desired, and then pass the revised file to the DEFAULTSINI option when installing Dragon from the command line. For information on command line installations, see "Installing the same Dragon configuration on multiple computers" on page 30.

Auto-Formatting dialog box

Auto-Formatting options

If you selected **Auto-Formatting options** during your initial install, or used the SetDefaultFormattingOptions "UK English | Large | Medical" command to configure default Autoformatting options, the following setting appears in your nsdefaults.ini file:

Option	Description and user interface equivalent
enx Turn Number Formatting On=0/1	Automatically format text check box: If set to 1, Dragon formats specific text automatically during
Default: 1 (selected)	dictation. If set to 0, Dragon does not format text automatically.

The [itnoptions.ini *] section also appears at the top or your nsdefaults.ini file, detailing each option.

Note: If enx Turn Number Formatting On is set to 0, all Auto-Formatting is disabled, regardless of the settings under [itnoptions.ini *].

For more information about Auto-Formatting options, see the Dragon online help.

Syntax

Each Auto-Formatting option appears on its own line, preceded by a semicolon (;). If you changed the default setting of a given option during the initial configuration, a second line appears showing the setting you selected. If you chose the default setting, you only see one line per option.

For example, if you disabled automatic formatting of street addresses by deselecting the **Street** addresses check box, you see:

;(Address) Str&eet addresses Address=0

If you selected the Street addresses check box (the default value), you see:

;(Address) Str&eet addresses

General Settings

Option	Description and user interface equivalent
Formatting enabled:	Caps Lock key overrides capitalization commands
Formatting disabled:	If enabled and with the keyboard Caps Lock key turned on, all Dragon capitalization commands are turned off
Caps Lock Overrides Caps Commands=0	For more information on capitalization commands, see Capitalizing text.
	Default: Disabled
Formatting enabled:	Web and e-mail addresses check box:
;(WebAndEmail) &Web and e-mail addresses	If enabled, Dragon formats email or internet addresses automatically.
Formatting disabled:	If disabled, Dragon does not apply formatting to web and email addresses.
;(WebAndEmail) &Web and e-mail addresses	Default: Enabled
WebAndEmail=0	
Formatting enabled:	Units of measure check box:
;(Measure) U&nits of measure	If enabled, Dragon applies formatting to units of measure, such as feet and inches.
Formatting disabled:	If disabled, Dragon does not format units of measure automatically
Measure=0	Default: Enabled
Formatting enabled:	Street addresses check box:
;(Address) Str&eet addresses	If enabled, Dragon automatically applies formatting to street addresses.
Formatting disabled:	If disabled, Dragon does not format street
;(Address) Str&eet addresses	addresses automatically.
Address=0	Default: Enabled
Formatting disabled:	ISO currency codes check box:
;(PriceIsoCode) IS&O currency codes	If enabled, Dragon formats currency amounts with the standard ISO currency codes.
Formatting enabled:	If disabled, Dragon does not format currency
;(PriceIsoCode) IS&O currency codes	amounts with ISO standards automatically.
PriceIsoCode=1	Default: Disabled
Formatting enabled:	Abbreviate titles check box:
;(AbbreviationTitle) Abbreviate tit⩽	If enabled, Dragon abbreviates common titles such as "Mr." or "Dr."

Option	Description and user interface equivalent
<pre>Formatting disabled: ;(AbbreviationTitle) Abbreviate tit⩽ AbbreviationTitle=0</pre>	If disabled, Dragon does not abbreviate titles automatically. Default : Disabled
Formatting enabled:	Phone numbers check box:
;(PhoneNumber) Phone num&bers	If enabled, Dragon formats sequences of digits as phone numbers.
Formatting disabled: ;(PhoneNumber) Phone num&bers PhoneNumber=0	numbers for the same region as the current user profile (US/Canada or UK).
	sequences as phone numbers.
	Default: Enabled
Formatting enabled:	Dates check box:
;(Date) &Dates	If enabled, Dragon formats dates in the preferred format (see next row for details).
Formatting disabled:	If disabled, Dragon does not format dates
;(Date) &Dates	automatically.
Date=0	Default: Enabled
Dates as spoken:	Dates drop-down menu:
;(DateFormat)	If date formatting is enabled, select a preferred format for dates, such as:
All other formats: ;(DateFormat) DateFormat=< <i>format</i> >	 Month DD, YYYY Mon D, YYYY MM-DD-YY D Month, YYYY D/M/YY DD-Mon-YY Default: Dates As Spoken
Formatting enabled:	Prices check box:
;(Price) &Prices	If enabled, Dragon formats prices and currencies with the appropriate currency symbol. Supported currencies are: • USD (\$, US\$) • CAD (C\$) • EUR (€) • JPY (¥) • GBP (£) • CHF (F)

Option	Description and user interface equivalent	
Formatting disabled:	If disabled, Dragon does not format currency automatically.	
;(Price) &Prices	Default: Enabled	
Price=0		
Formatting enabled:	Times check box:	
;(Time) &Times	If enabled, Dragon automatically formats standard or military times.	
Formatting disabled:	If disabled, Dragon transcribes times exactly as	
;(Time) &Times	spoken with no formatting.	
Time=0	Default: Enabled	
Formatting disabled:	Common abbreviations check box:	
;(AbbreviationOther) Common abbre&viations	If enabled, Dragon uses standard abbreviations such as "vs." or "etc." when transcribing	
Formatting enabled:	If dischlad, Dragon doos not abbraviate common	
;(AbbreviationOther) Common abbre&viations	words automatically.	
AbbreviationOther=1	Default: Disabled	
Formatting disabled:	UK and Canadian postcodes check box:	
;(AddressUKAndCanada) U&K and Canadian postcodes	If enabled, Dragon formats sequences of letters and numbers as UK or Canadian postcodes.	
Formatting enabled:	If disabled, Dragon does not format UK and	
;(AddressUKAndCanada) U&K and Canadian	Canadian postcodes automatically.	
postcodes	Detault: Disabled	
AddressUKAndCanada=1		
Formatting disabled:	Expand contractions check box:	
;(Contraction) Expand &contractions	If enabled, Dragon expands spoken contractions such as "don't" or "isn't."	
Formatting enabled:	If disabled, Dragon transcribes contractions	
;(Contraction) Expand &contractions	exactly as dictated.	
Contraction=1	Default: Disabled	
Formatting enabled:	Other numbers check box:	
;(OtherNumber) Ot&her numbers	If enabled, Dragon applies formatting to numbers, such as negative numbers, fractions, and decimals.	
Formatting disabled:	If disabled, Dragon will transcribe numbers	
;(OtherNumber) Ot&her numbers	exactly as dictated.	
OtherNumber=0	Default: Enabled	

Option	Description and user interface equivalent		
Formatting enabled:	"million" instead of ",000,000" check box:		
;(NumberHalfFormatted) "million" instead of ",000,000	If enabled, Dragon writes the word "million" instead of six zeros when users dictate round		
Formatting disabled:	If disabled, Dradon writes 1,000,000		
;(NumberHalfFormatted) "million" instead of ",000,000"	Default: Enabled		
NumberHalfFormatted=0			
Formatting disabled:	US Social Security Numbers check box:		
;(SocialSecurityNumbers) US &Social Security Numbers	If enabled, Dragon formats sequences of nine numbers as a US Social Security Number.		
Formatting enabled:	If disabled, Dragon does not insert hyphens into nine-digit numbers.		
;(SocialSecurityNumbers) US &Social Security Numbers	Default: Disabled		
SocialSecurityNumbers=1			
Use numerals over 10:	Numbers, if greater than or equal to check		
;(NumberRange)	box:		
	If enabled, Dragon formats numbers as numerals when they are greater than or equal to the		
All other settings:>	specified value (0, 2, 10, or 100).		
;(NumberRange)	If disabled, Dragon does not format numbers as		
NumberRange= <value></value>	numerais.		
Single space after a period:	Insert two spaces after period check box:		
spaces after period &insert two	of sentences.		
Two spaces after a period:	If disabled, Dragon adds only one space.		
;(TwoSpacesAfterPeriod) &Insert two	Default: Disabled		
spaces after period			
TwoSpacesAfterPeriod=1			
Formatting enabled:	Allow pauses in formatted phrases check		
;(CrossUtteranceFormatting) Allow	box:		
	numbers and phrases even when users pause		
Formatting disabled:	while saying them.		
;(CrossUtteranceFormatting) Allow pauses in fo&rmatted phrases	formatting may not take effect if the user		
CrossUtteranceFormatting=0	Default: Enabled		

Options dialog

If you selected **Modify the application's settings for all user profiles** during your initial install, or used the natspeak.exe /SetDefaultOptions command to configure default client options, the [options.ini Options] section appears in your nsdefaults.ini file.

The exact settings you see may vary based on the tabs you visited while changing default settings.

For more information on Options dialog settings, see the Dragon help.

PowerMic settings

Option	Description and user interface equivalent
Enable PM III Touchpad=0/1	Enable touchpad swipe check box:
Default: 1	If set to 1, users can move the cursor by swiping the PowerMic Touchpad button.
	If set to 0, the PowerMic Touchpad is disabled.

PowerMic buttons

PowerMic button functions are noted in the format:

18 <Context code> <Button code>=<Action code>

For example, to set the **Play/Stop** button to control Playback in the Dictation Box, enter:

18 4 3=9

See the following table below for the codes for each button and context:

Button		Globa	l context	Dictation Box context		
		Code	Default	Code	Default	
Transcribe	T→目	16	8 (Show dictation box)	4 6	23 (Transfer text)	
Tab Backward	M	17	37 (Tab backward)	47	37 (Tab backward)	
Tab Forward	H	18	17 (Tab forward)	48	17 (Tab forward)	
Dictate	•	11	7 (Press-to-talk)	4 1	7 (Press-to-talk)	

Button		Global context		Dictation Box context		
Button		Code	Default	Code	Default	
Rewind		12	29 (Previous field)	42	29 (Previous field)	
Fast Forward	11	14	30 (Next field)	44	30 (Next field)	
Stop/Play		13	33 (Accept defaults)	43	33 (Accept defaults)	
Custom Left	۲	19	3 (Force command recognition)	49	19 (Press cancel button)	
Enter/Select	V	1 10	23 (None)	4 10	24 (None)	
Custom Right	۲	1 11	4 (Force dictation recognition)	4 11	4 (Force dictation recognition)	
Mouse Left/Touchpad		1 16	38 (Left click)	4 16	38 (Left click)	
Mouse Right	D	1 17	39 (Right click)	4 17	39 (Right click)	
Trigger (underneath)	9	1 18	38 (Left click)	4 18	38 (Left click)	
Enable touchpad swipe		1 19	0 (Enabled)	4 19	0 (Enabled)	

Consult the table below for available actions to be triggered by the PowerMic buttons.

Action	Code number	Action	Code number
None	0	Next field	30
Show DragonBar menu	5	Accept defaults	33
Show Dictation box	8	Tab backwards	37

Action	Code number	Ac	ction	Code number
Microphone on/off	1	Fo	orce normal recognition	14
Show correction window	2	Fo	prce dictation recognition	4
Microphone sleep/on	6	Fo	prce command recognition	3
Press-to-talk	7	Fo	orce numbers recognition	15
Train new word	12	Fo	prce spell recognition	13
Transcribe recording	16	Ca	ancel recognition	51
Transfer text	23	Pla	ayback	9
Skip backward	21	Fa	st Playback	10
Skip forward	20	Fa	ast forward	31
Press OK button	18	Re	ewind	32
Press cancel button	19	Us	ser Commands	22*
Tab forward	17	Let	ft click	38
Previous field	29	Rię	ght click	39

* To configure PowerMic buttons to execute custom commands, set the Action code to 22 in the [options.ini PowerMic Buttons NMS] section, then enter the name of the command with the corresponding button under [options.ini PowerMic User Commands NMS].

For example, to set the **Custom Right** button to execute a custom command called MyCommand, enter the following:

[options.ini PowerMic Buttons NMS]
18 1 11=22
...
[options.ini PowerMic User Commands NMS]
18 1 11=MyCommand

Administrative Settings dialog

If you selected **Modify the administrative settings** during your initial install, or used the natspeak.exe /SetDefaultAdministrativeOptions command to configure default client options, the [nssystem.ini Settings] section appears in your nsdefaults.ini file.

For more information about Administrative Settings dialog settings, see the Dragon help.

Note: Many of the settings below are not available when Nuance Management Center/NMC mode is enabled in the Dragon client. Nuance Management Center administrators can control these settings in the NMC console.

Miscellaneous settings

Option	Description and user interface equivalent
<pre>Default Backup Location for User Profiles=<full path=""></full></pre>	Backup location for user profiles field:
Default : Blank	Sets the location where Dragon stores customized words and commands.
Custom Directory=< <i>full path</i> >	Data Distribution location field:
(Stand-Alone mode only) Default : C:\Pro- gramData\Nuance\NaturallySpeaking15\custom	Sets the location where Dragon stores customized words and commands.
Disable command changes for restricted users=0/1 Default : 0 (deselected)	Do not allow restricted users to add or modify commands check box:
	If set to 1, restricted Windows users cannot add or modify Dragon commands. Restricted users can, however, delete, import, and export commands using the Command Browser.
	If set to 0, all Windows users can add and modify Dragon commands.
Global MyCommands MacroRecorder=0/1	Disable use of Macro Recorder commands check box:
Default: 1 (deselected)	If set to 1, users cannot create or edit macro recorder commands. Users can still run the commands, however.
	macro recorder custom commands.
Global MyCommands StepByStep Scripting=0/1 (Stand-Alone only)	Disable use of Step-by-Step commands check box:

Option	Description and user interface equivalent
Default: 1 (deselected)	If set to 1, users cannot create or edit step-by-step custom commands. Users can still run the commands, however.
	If set to 0, users can create and edit step-by-step commands.
Global MyCommands VBA Scripting=0/1 (Stand-Alone only)	Disable use of Advanced Scripting commands check box:
Default: 1 (deselected)	If set to 1, users cannot create or edit scripting custom commands. Users can still run the commands, however.
	If set to 0, users can create and edit scripting commands.
Disable vocabulary changes for restricted users=0/1	Do not allow restricted users to modify vocabularies check box:
(Stand-Alone only)	If set to 1, restricted Windows users cannot modify vocabularies.
Delault. 0 (deselected)	If set to 0, all Windows users can modify vocabularies.
Global Enable Pause Results=0/1 (Stand-Alone only)	Record wave data between utterances check box:
Default : 0 (deselected)	If set to 1, Dragon saves all audio during dictation, including pauses, background noises, and coughing.
	If set to 0, Dragon deletes audio that does not contain speech.
No Dictation=0/1	Correction Only Mode check box:
Default: 0 (deselected)	If set to 1, Correction Only mode is available. This allows a user to log into another user's profile to edit their dictated document using the Playback feature. Dictation is disabled in Correction Only mode.
	If set to 0, Correction Only mode is disabled.
	Note : You must disable Correction Only mode to run the Acoustic and Language Model Optimizer.
enx ACO uses Auto Accent AM selection=0/1	Disable automatic acoustic model

Option	Description and user interface equivalent
(Stand-Alone only) Default: 1 (deselected)	selection in Acoustic Optimizer check box:
	If set to 1, Acoustic Optimization cannot automatically select an acoustic model that more closely matches the user's accent.
	If set to 0, Acoustic Optimization selects a different acoustic model automatically if necessary.

Scheduled Tasks tab

Option	Description and user interface equivalent
Data Collector Batch Mode=0/1	Enable scheduled Data Collection check box:
(Stand-Alone only)	If set to 1, enables Data Collection, which allows Dragon to
Default: 1 (selected)	collect up to 500 MB of data and text from your dictation sessions.
	If set to 0, disables Data Collection.
Allow Users to Optimize=0/1	Enable scheduled Accuracy Tuning check box:
Default: 1 (selected)	If set to 1, enables Accuracy Tuning.
	If set to 0, disables Accuracy Tuning.

Roaming tab settings

The settings below were created when you configured Roaming (see "Initial installation" on page 22). If you chose to store your Master Roaming user profiles on a Web server, the HTTP or SSL settings are saved in the encrypted roamingdef.ini file and cannot be edited directly.

Note: When Nuance Management Center/NMS mode is enabled, you configure the Roaming feature in the NMC console.

Options	Description and user interface equivalent
Roaming User On=0/1	Enable check box:
Default: 0 (deselected)	If set to 1, the Roaming feature is enabled.
	If set to 0, the Roaming feature is disabled; all user profiles are stored locally.
Roaming User Initialized=1	
Roaming User Display Name= <display name=""></display>	Display Name field in the Roaming User Network Location dialog box:
Default: None	Sets the name used to identify the Master Roaming user

Options	Description and user interface equivalent
	profile directory.
Roaming User Master Directory= " <network directory="">"</network>	Address field in the Roaming User Network Location dialog box:
Default: None	Sets the location of the Master Roaming user profile.
Roaming User Partial Path=< <i>directory</i> >	
Roaming User Local Cache	Local directory (for cache) field:
Directory=" <directory>"</directory>	Sets the location of the locally cached Roaming user data.
Default: None	Example:
	C:\ProgramData\Nuance\ NaturallySpeaking15\RoamingUsers
User Base Directory RU= "< <i>directory</i> >"	Sets the location of the local Roaming user profiles. Dragon creates this folder within the local cache directory above.
Default: None	Example:
	C:\ProgramData\Nuance\NaturallySpeaking15\ RoamingUsers\< <i>User Name></i>
	If Roaming is disabled, the User Base Directory RU is the same as the User Base Directory (below).
User Base Directory= " <directory>"</directory>	Sets the directory where non-roaming user profiles are stored.
Default : C:\ProgramData\Nuance\ NaturallySpeaking15\Users\	If Roaming User Restrict Local User Access is set to 1 (default), Dragon users cannot access user profiles in this directory when Roaming is enabled.
Roaming User Copy Dragon	Copy Dragon Log to Network check box:
Log=0/1 Default : 0 (deselected)	If set to 1, Dragon copies the Dragon.log file from the local workstation to the Master Roaming user profile location when synchronizing the local and Master Roaming user profiles. Dragon does not copy the Dragon.log file when the maximum size is reached in the Disk space reserved for network archive option.
	If set to 0, the Dragon.log file does not synchronize to the Master Roaming user profile location.
	Note : Selecting this option can increase the time it takes to close a roaming user profile.
Roaming User Save Acoustics=0/1	Save acoustic information check box:
Default: 1 (selected)	If set to 1, Dragon saves acoustic information with local user profiles. Saving the acoustic information ensures that

Options	Description and user interface equivalent
	user corrections are available after the user closes and re- opens the user profile.
	If set to 0, Dragon does not save acoustic information with the local user profile.
Roaming User Prompt Before	Prompt before saving to network location check box:
Saving=0/1 Default : 0 (deselected)	If set to 1, Dragon displays a dialog box allowing users to choose where to save user profiles. Dragon displays the dialog box when users attempt to close Dragon, close a user profile, or shut down the operating system.
	If set to 0, Dragon saves user profiles to a network location without prompting the user.
Roaming User Do Not Copy Dra	Conserve archive size on network check box:
Files=0/1 Default : 0 (deselected)	If set to 1, Dragon does not copy .dra acoustic data files to the Master Roaming user profile location when synchronizing the local and Master Roaming user profiles.
	If set to 0, Dragon synchronizes .dra files to the Master Roaming user profile location, making them available to the Acoustic and Language Model Optimizer.
	Note : Dragon does not copy .dra files when the maximum size is reached in the Disk space reserved for network archive option (below).
Roaming User Max Container	Disk space reserved for network archive check box:
Size=< <i>archive size></i> Default : 1000 MB per dictation source	Specifies the maximum size, in megabytes, of the network directory containing the acoustic data available to the Acoustic Optimizer.
Open User Large Collection=0/1	Display Classic Open User Profiles dialog check box:
Default: 1 (deselected)	If set to 0, Dragon uses the classic Open User Profile dialog box. The dialog box displays only folders that contain Dragon user profiles.
	If set to 1, Dragon uses the new Open User Profiles dialog box.
Roaming User Restrict Local User Access=0/1	Allow non-Roaming user profiles to be opened check box:
Default: 1 (selected)	If set to 0, users can open Roaming or non-Roaming user profiles when the Roaming feature is active.
	If set to 1, users can only access Roaming user profiles.
Roaming User Incorporate Voc Delta=0/1	Merge contents of vocdelta.voc into network user profile when file is full check box:

Options	Description and user interface equivalent
Default: 1 (selected)	If set to 1, Dragon incorporates the contents of the local vocdelta.voc file into the Master Roaming user profiles when the vocdelta.voc file reaches 90% of its maximum size (1 GB). After incorporating the contents of the file into the Master Roaming user profile, Dragon clears that data from the local user profile.
	If the data is being incorporated when you open a Roaming user profile, the process can be time consuming.
	If set to 0, Dragon does not merge the contents of the vocdelta.voc file.
	Note : Dragon does not display a message when the vocdelta.voc file reaches 90% of its maximum size.
Roaming User Limited Network Traffic=0/1	Access network at user profile open/close only check box:
Default: 0 (deselected)	If set to 1, Dragon synchronizes the Master and local Roaming user profiles only when a user opens or closes the profile. This includes the changes a user makes locally from the Options dialog box.
	If set to 0, Dragon synchronizes changes to Roaming user profiles immediately.
	Note : Excessive network slowdowns can be alleviated by checking this option because it limits multiple synchronizations of local and Master Roaming user profiles.
Roaming User Always Break Lock=0/1	Ask before breaking locks on network user profiles (recommended) check box:
Default: 0 (selected)	If set to 0, Dragon warns users if they attempt to open a Roaming user profile that is already in use. The prompt states that the user profile is locked and offers the option to unlock the profile.
	Network problems can cause a lock to become "stuck" and not release.
	If set to 1, Dragon breaks the lock automatically without producing a prompt.
Roaming ASW Override=0/1	Set audio levels on each machine check box:
ASW Override=0/1 Default : 0 (deselected)	If set to 0, Dragon runs a Volume and Quality Check on the microphone each time a user opens a Roaming user profile.
	If set to 1, Dragon skips the microphone check.

Options	Description and user interface equivalent
	ASW Override and Roaming ASW Override should always have the same setting.

NMS settings

For information on installing and configuring the NMC server, see the *Nuance Management Center Server Installation and Configuration Guide*.

Option	Description and user interface equivalent
Connect To NMS=0/1	Enable NMS check box:
Default: 0 (deselected)	If set to 1, enables Nuance Management Center/NMS mode.
	If set to 0, disables Nuance Management Center/NMS mode. Dragon is in Standalone mode.
Default NAS Address= < <i>full NMC address</i> > Default : None	Server field: Directs the Dragon client to the NMC cloud server or your on-premise server.
NAS Login As Windows User=0/1	Login Options radio buttons:
Default: 0 (Provide a login name and password)	If set to 1, users log in to the Dragon client using their Windows single sign-on credentials.
	If set to 0, users log in to the Dragon client with a user name and password created by an administrator in the NMC console.

Appendix B: Options for MSI installations

MSI properties for Dragon installations	54
Sample command lines	57
Feature variables to set through the ADDLOCAL or ADVERTISE properties	
Speech options	59
MSI options for scheduled tasks	60
Extracting MSI/MST files from the Dragon setup.exe	61

MSI properties for Dragon installations

This section describes the msiexec.exe properties that apply to Dragon. For information on Windows Installer-defined properties, see the Microsoft Dev Center for Windows Installer: https://msdn.-microsoft.com/en-us/library/windows/desktop/aa370905.aspx.

Syntax

• To install using msiexec.exe, use the syntax:

msiexec.exe /i "Dragon 15.msi" <PROPERTY>=<VALUE>

• To install using setup.exe, put all msiexec.exe properties in quotation marks after the /v option:

```
setup.exe /v"<PROPERTY>=<VALUE>"
```

- You do not need to preface Dragon command line options by hyphens or slashes.
- Unless otherwise noted, all property values are in UPPERCASE.

Note: If you use the /qn switch, no dialogs display during installation, even if you set them to display in the command line.

Options	Description
SERIALNUMBER=< <i>serial_number></i> Required	Specify a valid serial number. A serial number is required for all installations.
	Note : Specifying a serial number on the command line does not bypass the serial number checking during setup.
DEFAULTSINI="< <i>full_path</i> >\ nsdefaults.ini" Optional	Indicates the default settings file (nsdefaults.ini) that you created when configuring the installer (see "Natspeak.exe Command Line options" on page 23). The Dragon installer uses this file to change the default settings for all users.
ROAMINGUSERINI=" <full_ path>\roamingdef.ini" Optional</full_ 	Indicates a default settings file (roamingdef.ini) used to configure Roaming network settings.
SETDEFAULTS=0/1 Optional	Sets the default state of the Modify the application's settings for all users check box in the Advanced dialog of the Installer.
	0: Deselected. The Options dialog box does not appear during installation.
	1: (Default) Selected. The Options dialog box appears during installation.
SETADMINS=0/1 Optional	 Sets the default state of the Modify the administrative settings check box in the Advanced dialog of the Installer. 0: Deselected. The Administrative Settings dialog box does

Options	Description
	not appear during installation.
	1: (Default) Selected. The Administrative Settings dialog box appears during installation.
SETFORMATTINGS=0/1 Optional	Sets the default state of the Modify the formatting options for all users check box in the Advanced dialog of the Installer.
	 Deselected. The Auto-Formatting dialog box does not appear during installation.
	1: Selected. The Auto-Formatting dialog box appears during installation.
<pre>PERIODIC_TASK=<tasks>;<admin>; <password>;<day>, <hh:mm> Optional</hh:mm></day></password></admin></tasks></pre>	Configures the Acoustic Model Optimizer, Language Model Optimizer and (Stand-Alone only) Data Collection tasks in the Scheduled Tasks tab of the Administrative Settings dialog.
	For more information, see "MSI options for scheduled tasks" on page 60.
REGION= <region></region>	Set the REGION to include with your installation. The available English-language regions are:
Optional: If omitted, Dragon installs the default regions: All for English- language installations, or None for non-English installations.	 United States (UnitedStates or US) Canada (Canada) United Kingdom (UnitedKingdom or UK) Australia/New Zealand (Australia or NewZealand) Indian subcontinent (IndianSubcontinent or Indian)
	To install all English-language regions, set REGION=A11.
	Set REGION=NoEnglish or REGION=None if you do not need to install any English-language regions.
REMOVEOLDPROD=1	Set REMOVEOLDPROD to 1 to remove the old version of the product before installing the new version. You should only use this option for major upgrades.
NMS_ADDRESS=" <production server<br="">URL>" (NMC Installations only)</production>	Indicates the NMC server address that the Dragon client connects to when the user logs in. You should have received this address in your welcome email.
NMS_WINDOWS_LOGIN=0/1 (NMC Installations only)	Sets the Login Options radio button state in the NMC tab of the Administrative Settings dialog.
	Note : Before you enable Active Directory single signon, you must make additional configuration changes. For more information, see the <i>Nuance Management</i> <i>Center Server Installation and Configuration Guide</i> .

Options	Description
	0: (default) Disables Active Directory single sign-on; sets radio button to Provide a login name and password .
	1: Enables Active Directory single sign-on; sets radio button to Use Windows single sign-on .
INSTALLDIR=" <path install="" to="">"</path>	Sets the installation directory to the specified location.
	For an administrative installation, pass the TARGETDIR option instead of the INSTALLDIR option.
REBOOT=ReallySuppress	Prevents the computer where you are installing Dragon from restarting automatically after the installation ends.
ADDLOCAL=Feature1,Feature2, or ADDLOCAL=ALL	Set the ADDLOCAL property to a comma-delimited list of features to be installed locally. For a list of available features, see Feature variables to set through the ADDLOCAL or ADVERTISE properties.
	To install all features locally (including user profiles), use ADDLOCAL=ALL.
ADVERTISE=Feature1,Feature2,	Set the ADVERTISE property to a comma-delimited list of features to be available but not locally installed.
	The ADVERTISE option overrides the ADDLOCAL option. The best method for installing a particular set of features is to set the ADDLOCAL property to ALL and then set the ADVERTISE property to those features you do not want installed locally.
REINSTALL=Feature1,Feature2,	Set the REINSTALL property to a comma-delimited list of features to be reinstalled.
REINSTALL=ALL	To reinstall all features, use REINSTALL=ALL.
	If you set the REINSTALL property, you should also set the REINSTALLMODE property to indicate the type of reinstall to be performed.
	Note that even if REINSTALL is set to ALL, only those features that were already installed previously are reinstalled.
REINSTALLMODE={type of reinstallation to perform}	Set the REINSTALLMODE property to a string indicating the type of reinstall to perform. Options are case-insensitive and order-independent.
	For a list of available modes, see https://msdn microsoft.com/en-us/library/windows/desktop/aa371182.
	The default is REINSTALLMODE=omus. The installer overwrites files if they are missing or an older version, rewrite required registry entries, and reinstall all shortcuts and icons.
/x <product.msi productcode></product.msi productcode>	Uninstalls the currently installed version of Dragon. You are

Options	Description
	required to take this action during upgrading; however, you should be familiar with the entire upgrade procedure before proceeding with this option.
/L <parameter> "<full path>\logfile.log"</full </parameter>	Creates an installation log in the specified location. To log all information, including verbose output, enter /L*v. You can send this log to Nuance Technical Support should any issues occur.
	For available parameters, see https://- technet.microsoft.com/en-us/library/cc759262 (v=ws.10).aspx#BKMK_SetLogging.
/q <parameter></parameter>	Sets the user interface level for the installation. For an initial installation, pass the /qf option to ensure that you see user interface prompts that help you diagnose any issues that occur.
	Use /qn for a silent installation.
	For available parameters, see https://- technet.microsoft.com/en-us/library/cc759262 (v=ws.10).aspx#BKMK_SetUI.

Sample command lines

msiexec.exe command line

msiexec.exe /i "Dragon 15.msi"
SERIALNUMBER=<serial_number>
DEFAULTSINI="C:\<full_path>\nsdefaults.ini"
INSTALLDIR="C:\Program Files\Nuance\NaturallySpeaking15"
PRODUCTUPDATEFLAG=1 REBOOT=ReallySuppress
PERIODIC_TASK="aco|lmo;admin;pswd;Mon, 01:00|Mon, 06:00"
ADDLOCAL=TTSENX,NatSpeak,ENUGeneral
/L*v "C:\Logs\logfile.log" /qn

setup.exe command line

setup.exe /s /v"SERIALNUMBER=<serial_number> DEFAULTSINI=\"C:\<full_path>\nsdefaults.ini\" INSTALLDIR=\"C:\Program Files\Nuance\NaturallySpeaking15\" PRODUCTUPDATEFLAG=-1 REBOOT=ReallySuppress PERIODIC_TASK="aco|lmo;admin;pswd;Mon, 01:00|Mon, 06:00" ADDLOCAL=TTSENX,NatSpeak,ENUGeneral /L*v C:\Logs\logfile.log /qn"

Feature variables to set through the ADDLOCAL or ADVERTISE properties

You can specify any of the features in the table below using ADDLOCAL and ADVERTISE properties on the command line. For example:

ADDLOCAL=NatSpeak,TTSENU,ENU

When specifying features on the command line:

- If a feature does not exist in a particular edition or language, overriding its default property has no effect.
- Some features (such as Text-to-Speech) have sub-features. Setting these features on the command line automatically turns on the properties of all sub-features, unless you specify an additional override for those sub-features.

Feature	Sub-features
NatSpeak Note : Required in ADDLOCAL; if not included, the installation will fail.	None
Samples (Sample Commands file)	None
TTS (Text-to-Speech)	 TTSENU (US English Text-to-Speech) TTSENG (British English Text-to-Speech) TTSDEU (German Text-to-Speech) TTSESP (Spanish Text-to-Speech) TTSFRA (French Text-to-Speech) TTSITA (Italian Text-to-Speech) TTSNLD (Dutch Text-to-Speech)
Tutorial (iTutorial)	None

Speech options

You can also add or advertise the following datapacks. Each includes all sub-features, including vocabularies and accents:

- ENU (US English)
- ENC (Canadian English)
- ENG (UK English)
- AUS (Australia/New Zealand English)
- IND (Indian Subcontinent English)
- SEA (Southeast Asia English)
- DEU (German)
- ITA (Italian)
- NLD (Dutch)
- FRA (French)
- ESP (Spanish)

MSI options for scheduled tasks

Note: Take the following actions on the client computer. Do not perform them on the computer where you performed the initial installation and configured default option settings.

You can include an additional option on the command line to run one or more of the following tasks on a particular schedule:

- Acoustic model optimization (ACO)—This task optimizes the acoustic models used to interpret the user's speech. You can set a particular date and time for this optimization to occur. When a speaker is new to Dragon, you might want to run the optimization more often.
- Language model optimization (LMO)—This task optimizes the language model (vocabulary files) used to help recognize words that the user speaks. The model incorporates data from the user's speech into the language model he or she is using, customizing the model for that user profile.
- Data collection (DC) This task automatically collects data that helps improve Dragon's ability to recognize speech. You can choose to allow this data to be sent back to Nuance over the Internet on a particular schedule, or choose not to send the data. This process does not collect your personal information. Data collection is available in non-US English versions of Dragon.

Note: When Nuance Management Center/NMS mode is enabled, you cannot schedule Data Collection tasks on the Dragon client. NMC administrators can schedule Data Collection in the NMC console. For more information, see the *Nuance Management Center Administrator Guide*.

You can schedule the above tasks and turn them on or off by passing an option called PERIODIC_TASK to the MSI installer.

First, set PERIODIC_TASK to a string containing short acronyms for the types of tasks, separated by vertical bars: aco | 1mo | dc.

If you do not pass the acronym for a feature, that feature is set to its default.

Next, the string for PERIODIC_TASK should include the administrator login and password, followed by the schedule for each task, in the order that they occur in the string, separated by vertical bars.

- Enter the day(s) of the week for each task using three-letter abbreviations (Mon, Tue, etc.).
- Enter the hour using a 24-hour clock in the format hh:mm (05:00, 18:30, etc.).

For example, the string below sets the schedule for Acoustic Model Optimization to Mondays at 1 AM and the Language Model Optimization to Mondays at 6 AM:

PERIODIC_TASK="aco|lmo;admin;pswd;Mon, 01:00|Mon, 06:00"

The task runs once a week on the day and time indicated. If you omit the Day, the task runs every day at the time given. Because no schedule is specified for Data Collection, the default schedule will be used (Stand-Alone only).

Default Schedules

- Acoustic model optimization (AC0)-Every day, 3 AM
- Language model optimization (LMO)—Every day, 2 AM

Extracting MSI/MST files from the Dragon setup.exe

Some minor releases of Dragon do not include an MSI file. Instead, the file is part of the setup.exe file. You can run silent installations from the command line with msiexec.exe or setup.exe—you don't need to extract the .msi and .mst files. Use the following information if you are comfortable using .msi installers.

Using .MST files, you can tailor the MSI installation without changing the setup.exe file that Nuance provides.

The following sample command line extracts the Dragon 15.msi file and the .mst files used for installing Dragon:

setup.exe /a /s /v"EXTRACTFILES=c:\temp\MSIfiles /qn"

Use the options below to extract .msi/.mst files from setup.exe. These options do not install any files, but rather extract an installable set of files into the server directory you specify. You can then use the extracted .MSI and .MST files in a command line to install Dragon.

Option	Description
/a	An administrative installation installs a source image of the application onto the network. For more information, see https://msdn microsoft.com/en-us/library/aa367541 (v=vs.85).aspx.
/v" <msiexec options="">"</msiexec>	Passes msiexec options to Windows Installer. For more information, see MSI properties for Dragon installations. This option is required when extracting the .msi files.
EXTRACTFILES=C:\ <fullpath>\</fullpath>	Indicates the directory where the extracted .msi/.mst files are to be written. This property is required to extract the .msi files. If the directory you specify does not exist, the installer creates it.
	Here is a sample command line to extract .msi files from a single executable:
	<pre>setup.exe /a /s /v"EXTRACTFILES- S=c:\temp\msifiles"</pre>
/l <windows code="" language=""></windows>	Creates an MST file for the language specified (for example, 1031.mst). The language codes supported for installing Dragon are:
	1031=German
	1033=English
	1034=Spanish
	1036=French
	1040=Italian

Option	Description
	1043=Dutch
TARGETDIR="C:\xyz"	Use with administrative installations only. Indicates the full path to where the image of Dragon will be installed.

Appendix C: Using Dragon over a remote desktop connection

Remote desktop connection support	. 64
Configuring the Windows server	. 66
Configuring the Dragon clients	. 70

Remote desktop connection support

To transmit audio from the client computer to a server running Dragon through a Remote Desktop Connection, you must:

- Enable the audio recording option on the remote client software.
- Enable the audio recording redirection policy on the server.

To use the PowerMic over the RDC connection, install the PowerMic Button Control application to enable button support.

System Requirements for using Dragon through a remote desktop connection

- Server Operating System:
 - Windows Server 2016
 - Windows Server 2012 R2
 - Windows Server 2008 R2
 - Windows 10 Professional, Enterprise and Education
 - Windows 8 Professional and Enterprise
 - Windows 7 Ultimate and Enterprise

Note: Window Server 2008 R2, Windows Server 2012 R2, and Windows Server 2016 support multiple client connections at the same time. Windows 7 Ultimate and Enterprise, Windows 8 Professional and Enterprise or Windows 10 Professional, Enterprise and Education supports only a single client connection at one time.

- Server Hardware: To support 6 concurrent users connecting to Dragon on a server, the minimum requirements are:
 - Cache: 1 MB L2 cache per CPU
 - CPU: 3.x Ghz
 - Disk space: 5 GB
 - Processor: Multi-core processor with 4 cores
 - **RAM**: 16 GB RAM
- Client Operating System: The following operating systems support Remote Desktop Connection:
 - Windows 10, 32-bit and 64-bit
 - Windows 8.x, 32-bit and 64-bit
 - Windows 7, 32-bit and 64-bit
- Client Hardware:
 - Disk space:
 - 2 MB for the Remote Desktop Client (from Microsoft)
 - 8 MB for the Dragon client
 - 1 GB free hard disk space
- Microphone:
 - USB microphone: including the PowerMic
 - Other microphone: Microphone plugged into Mic-In jack
 - **Headset**: Any Nuance-approved headset. Visit http://support.nuance.com/compatibility/ to view the Hardware Compatibility List.
 - Bluetooth: Plantronics Calisto Bluetooth Headset

- **Software**: Remote Desktop Connection 6.1 (RDP 6.1) or higher. The RDP 8 download is available at https://support.microsoft.com/en-us/help/2592687/remote-desktop-protocol-rdp-8-0-update-for-windows-7-and-windows-serve and works for all operating systems.
- Network:
 - 100 Mbps connection speed
 - Network bandwidth required per active user is 1.3 Mbps

Configuring the Windows server

Install Dragon on a supported server operating system. For information on installing Dragon, see "Initial installation" on page 22.

When you have installed Dragon, do the following for your server:

- Windows Server 2008 R2—See "Configuring Windows Server 2008 R2" on page 67.
- Windows Server 2012 R2 or Windows Server 2016—See "Configuring Windows Server 2012 R2 or Windows Server 2016" on page 66.
- Windows 7 Ultimate and Enterprise, Windows 8 Professional and Enterprise or Windows 10 Professional, Enterprise and Education—See "Configuring other server operating systems" on page 69.

Configuring Windows Server 2012 R2 or Windows Server 2016

Install and configure the Remote Desktop Services role

- 1. Open Remote Desktop Connection to the server, or go directly to the server console.
- 2. From the Start menu, open the Server Manager.
- 3. On the Dashboard, click **Add roles and features**.

The Add Roles and Features wizard appears.

4. On the Before You Begin page, click Next.

The Select installation type screen appears.

5. Select Role-based or feature-based installation, and then click Next.

The Select destination server screen appears.

6. Choose **Select a server from the server pool**, select the server, and then click **Next**.

The Select Server Roles screen appears.

7. Select Remote Desktop Services from the Roles list, and then click Next.

The Select features screen appears.

- 8. On the Features list, browse to **Remote Server Administration Tools>Role Administration Tools>Remote Desktop Services Tools**.
- 9. Select Remote Desktop Licensing Tools, and then click Next.

The Remote Desktop Services screen appears.

10. Click Next.

The Select role services screen appears.

11. Select Remote Desktop Session Host, and then click Next.

A pop-up window appears.

12. Click Add Features.

The pop-up window closes.

13. Click Next.

The Confirm installation selections screen appears.

14. Select Restart the destination server automatically if required.

- 15. Confirm your selections, and then click **Install**.
- 16. If a dialog box appears asking you to allow automatic restarts, click Yes.

The Installation Progress screen displays the status of the installation.

- 17. When the installation is complete, verify that the installation was successful.
- 18. Click Close.
- 19. Restart the computer, even if the server was not restarted automatically.

Configure the local group policy on the server

- 1. On the server, open a command prompt and run gpedit.msc.
- Navigate to Computer Configuration>Administrative Templates>Windows Components>Remote Desktop Services>Remote Desktop Session Host>Device and resource redirection.
- 3. Enable the Allow audio and video playback redirection option:
 - 1. Right-click the Allow audio and video playback redirection screen.
 - 2. Select Edit.
- 4. Select **Enabled**, and then click **OK**.
- 5. On the client computer, launch the registry editor:
 - 1. Go to **Start > Run...**.
 - 2. In the Run line, type **regedit**.
 - 3. Click OK.
- 6. Set the following registry setting to 0: HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Terminal Server-\WinStations\RDP-Tcp\fDisableAudioCapture REG_DWORD0x00000000

Allow connections from client computers

- 1. On the server, open the Control Panel.
- 2. Navigate to System and Security>System.
- 3. Select the **Remote settings>Remote** tab.
- 4. Choose your preferred configuration to allow remote connections.
- 5. Click OK.
- 6. Proceed to "Configuring the Dragon clients" on page 70.

Configuring Windows Server 2008 R2

Install and configure the Remote Desktop Services role

- 1. Open Remote Desktop Connection to the server, or go directly to the server console.
- 2. Go to **Start>Administrative Tools** and open the Server Manager.
- 3. Right-click **Roles**, and then select **Add Roles**.

The Add Roles Wizard opens.

4. Click Next.

The Select Server Roles screen appears.

5. Select **Remote Desktop Services**, and then click **Next**.

The Remote Desktop Services screen appears.

6. Click Next.

The Select Role Services screen appears.

7. Select Remote Desktop Session Host, and then click Next.

The Uninstall and Reinstall Applications for Compatibility screen appears.

8. Click Next.

The Specify Authentication Method for Remote Desktop Session Host screen appears.

- 9. Select Do not require Network Level Authentication.
- 10. Click Next until you reach the Configure Client Experience screen.
- 11. Select Audio and video playback and Audio recording redirection, and then click Next.

The Confirm Installation Selections screen appears.

12. Confirm your selections, and then click Install.

The Installation Progress screen shows the status of the installation. When the process is complete, the Installation Results screen appears.

- 13. Verify that the installation was successful, and then click **Close**.
- 14. Restart the computer.

Configure the local group policy

- 1. On the server, open a command prompt and run gpedit.msc.
- Navigate to Computer Configuration>Administrative Templates>Windows Components>Remote Desktop Services>Remote Desktop Session Host>Device and resource redirection.
- 3. Enable the Allow audio and video playback redirection option:
 - 1. On the Allow audio and video playback redirection screen, select Enabled.
 - 2. Click OK.
- 4. Enable the Allow audio recording redirection option:
 - 1. On the Allow audio recording redirection screen, click **Enabled**.
 - 2. Click OK.
- 5. On the client computer, launch the registry editor:
 - 1. Go to **Start > Run...**.
 - 2. In the Run line, type regedit.
 - 3. Click OK.
- 6. Set the following registry setting to 0:

HKLM\SYSTEM\CurrentControlSet\Control\Terminal Server\WinStations\RDP-Tcp\ fDisableAudioCapture REG_DWORD0x00000000

Allow connections from client computers

- 1. On the server, open the Control Panel.
- 2. Navigate to System and Security>System.

- 3. Select Remote.
- 4. Choose your preferred configuration to allow remote connections.
- 5. Click OK.
- 6. Proceed to "Configuring the Dragon clients" on page 70.

Configuring other server operating systems

Do the following to configure Remote Desktop Connection on Windows 7 Ultimate and Enterprise, Windows 8 Professional and Enterprise, or Windows 10 Professional, Enterprise and Education:

- 1. Open the Control Panel.
- 2. Open System Properties.
- 3. Click the **Remote** tab.
- 4. Choose your preferred configuration to allow remote connections.
- 5. Proceed to "Configuring the Dragon clients" on page 70.

Configuring the Dragon clients

To enable audio redirection through a remote desktop connection and to allow users to connect and use Dragon through a Remote Desktop Connection, you must install and configure the Dragon Client for Remote Desktop on each client computer that needs to connect to Dragon on the server.

- 1. In Windows Explorer, navigate to the Dragon installer DVD.
- 2. Open the DragonClientForRemoteDesktop folder.
- 3. Double-click to run setup.exe or dragon-clientinstaller.msi.
- 4. Follow the prompts to complete the installation.

Configure the microphone

- 1. On the client computer, plug in the microphone that you're using to dictate with Dragon.
- 2. Go to Start>Dragon Client for Remote Desktop and open the Audio Setup Wizard.
- 3. Follow the prompts to ensure that microphone sound levels and signal quality are acceptable.

Configure the Remote Desktop Connection

Note: Depending on which version of Windows you are running, your RDC software interface may not completely match the screens described in the steps in this section.

- 1. In the Start menu, search for and open Remote Desktop Connection.
- 2. In the Remote Desktop Connection window, click **Options**.
- 3. Select the Local Resources tab, and then click Settings.

A pop-up dialog window appears.

- 4. Under Remote audio playback, select Play on this computer.
- 5. Under Remote audio recording, select Record from this computer.

These options enable audio support when the user runs Dragon over a remote connection.

- 6. Click **OK** to close the pop-up window.
- 7. Recommended for PowerMic users only:
 - On the Local Resources tab, set the Apply Windows key combinations field to Only when using the full screen. Using full-screen mode lets you use the PowerMic Button Control application correctly.

Note: Key combinations may not work as expected when using full-screen mode.

- On the **Display** tab, set the **Display configuration** to Full Screen.
- 8. In the Start menu, search for and open the Control Panel on your computer.
- 9. Open the Sound window. If you do not see **Sound** in the main Control Panel screen, click **Hardware and Sound** and look for **Sound** within this category.
- 10. Click the Recording tab and verify that Remote Audio device appears.

Using Dragon on a Server Operating System

• To use the PowerMic over a remote desktop connection, select the USB microphone type when creating a new user profile.

When using the USB dictation source, you must use the PowerMic Button Control application to configure PowerMic hot keys.

• The Remote Audio suggested for the user profile is the default microphone on your client computer.

User profiles and using Dragon through a Remote Desktop Connection

For best results, Nuance recommends creating and training a new user profile while Dragon is running in a Remote Desktop session.