Client installation guide

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Mozilla Addon SDK 1.17

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Contents

Chapter 1: About this guide

Guide overview

The *Dragon Installation Guide* provides information on installing and configuring the Dragon client on one or more computers.

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.

- Launch applications.

- Navigate in applications.

- 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 20) 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**—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. Not applicable if you have a subscription to Dragon Professional, DragonLegal, or Dragon Law Enforcement.

  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, see "Additional resources" on page 10.

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 Professional 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 Server Installation and Configuration Guide	Instructions for installing and configuring the NMC server, database, and NMC console, and instructions for configuring single sign-on authentication.	Dragon Support 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

Interactive tutorial

Dragon includes an interactive tutorial with progressive simulations that help you learn Dragon skills.

When you are connected to the internet, Dragon connects to a web-based interactive tutorial. If you don't have an internet connection, the tutorial runs locally.

Support

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

https://www.nuance.com/dragon/support/dragon-naturallyspeaking.html

Chapter 2: Preparing to install Dragon

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 the appropriate access rights and permissions on client machines.	"Required access rights and permissions " on page 18
☐	Prepare client workstations.	"Preparing client workstations" on page 18
☐	Perform an initial installation of the Dragon client.	"Initial installation" on page 20
☐	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 22
☐	Install the Dragon client on users' machines using one of the following methods: • Push install with an MSI.	• "Installing the same Dragon configuration on multiple computers" on page 29 • "Command Line installation with msiexec.exe" on page 30
☐	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 32
☐	Enable TLS on your Nuance Management Center server	"Enabling TLS" on page 33
☐	Optionally convert Your Nuance Management Center installation from Stand-Alone mode to NMS mode	Converting from Stand-Alone mode to NMS mode

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 18.

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.

Language considerations

The Dragon `setup.exe` uses your computer's operating system language to determine the language in which to display text in the installation wizard. For example, if your operating system is Spanish, the installation wizard user interface appears in Spanish. However, if you choose to install using the .MSI file instead, that file uses the language of your Dragon edition. To override this and allow the .MSI file to use the language of your preference, execute the following from the command line:

```
cd <path where setup.exe and .MSI exist>
msiexec /i "path to .MSI" TRANSFORMS=<path to .MST>
```

For example, to allow the .MSI to use a French user interface:

```
msiexec /i "Dragon 16.msi" TRANSFORMS=1036.mst
```

Use the following table for .MST file names.

Language	File Name
English	1033.mst
German	1031.mst
French	1036.mst
Italian	1040.mst
Spanish	1034.mst
Dutch	1043.mst

Security considerations

When your organization implements Dragon, it is critical to install the software and its system components using secure installation methods to protect the integrity and confidentiality of your data. It is equally important to manage and monitor your system once installed to ensure that your data is protected from unauthorized access and misuse.

The following sections provide secure installation and configuration guidelines, and describe the security features provided in Dragon and in Nuance Management Center (if you have Nuance Management Center/NMS mode enabled) to help you manage and monitor your system.

General security principles

All products

- Keep software up-to-date.

  Keep all software versions current by installing the latest patches for all components, such as Microsoft® Windows Server, including all critical security updates.

- Promote policy awareness.

  Ensure your employees are aware of Acceptable Use policies, best practices, and standard operating procedures that are relevant to Dragon.

Nuance Management Center product

If you are using a Dragon edition where Nuance Management Center/NMS mode is **enabled**:

- Create password requirements.

  Create a password policy to establish password requirements. For example, require a minimum password length, such as 16 characters.

- Keep passwords secure.

  When you initially create user accounts in Nuance Management Center, send users their username and initial password in separate email messages. Instruct your users not to share or write down passwords, or store passwords in files on their computers. In addition, require users to change their default passwords upon first use, and on a regular basis.

  For more information, see the **Users must change their password after first login** Organization option and the **Maximum password age - password will expire in _n_ days** Organization option in the NMC Help.

- Implement the principle of Least Privilege.

  In implementing the principle of Least Privilege, you grant users the least amount of permissions needed to perform their jobs. You should also review user permissions regularly to determine their relevance to users' current job responsibilities.

- Monitor system activity.

  Review user audit records regularly to determine which user activities constitute normal use, and which may indicate unauthorized use or misuse.

- Establish best practices for downloading report data.

  Nuance Management Center provides the option to save report data to a CSV file. Establish best practices for downloading data to ensure the data remains secure outside of the product.

Installing and configuring Dragon securely

The Dragon installation instructions include procedures that install the application and system components into a secure state by default. In addition to performing the standard installation procedures, you can do the following to secure your data.

- Secure your DRA files.

  A DRA file contains acoustic data (audio and text transcripts) from your dictation. If you chose to save DRA files, you can open them later for playback and correction. By default, Dragon saves these files in the same directory as your dictated document. You should ensure you save your dictated document (and consequently, DRA files) in a secure location.

  Dragon does not encrypt these files. You should apply the same level of security for these files as you would for a Microsoft Word document.

  For more information on saving DRA files, see the **Save recorded dictation with document** option in the "Options dialog box—Data" topic in the Dragon client Help.

Dragon security features

You can use the following security features in the Dragon client.

Authentication

You can choose from the following authentication methods. You can also select from flexible password options to establish a password policy.

Authentication methods

The Dragon client requires users to authenticate by logging in with a unique username and password. You can choose from the following authentication methods.

- **Single sign-on via Windows**—You can enable single sign-on to allow users to log in to the Dragon client using their Windows credentials. This is most secure method for authentication as users do not have to manage a separate set of credentials for Dragon, and administrators do not have to manage a password policy.
- **Native authentication**—Users log in to the Dragon client using a login and password that you create when you create user accounts in the NMC console.

Password settings

Nuance Management Center provides password options that you can select to establish a password policy for your Dragon users. If the **Password must meet complexity requirements** check box is selected on the Organization Details page in the NMC console, you can require specific password content, complexity, and expiration.

For more information, see the "Organization Details page" topic in the NMC Help.

Restricting access to commands and vocabularies

You can use the following options in Administrative Settings to control access to some commands and vocabularies:

- Do not allow restricted users to add or modify commands
- Disable use of Macro Recorder Commands
- Disable use of Step-by-Step Commands
- Disable use of Advanced Scripting Commands
- Do not allow restricted users to modify vocabularies

For more information, see the "Administrative Settings dialog box—Miscellaneous tab" topic in the Dragon client Help.

Nuance Management Center security features

If you are using a Dragon edition where Nuance Management Center/NMS mode is **enabled**, you can use the following security features in Nuance Management Center.

Authentication

You can choose from the following authentication methods. You can also select from flexible password options to establish a user account password policy.

Authentication methods

Nuance Management Center requires users to authenticate by logging in with a unique username and password. You can use the following authentication methods.

- **Single sign-on via Active Directory**—On-premise deployments can enable single sign-on to allow users to log in to Nuance Management Center using their Windows credentials. This is most secure method for on-premise deployments as users do not have to manage a separate set of credentials for Nuance Management Center, and administrators do not have to manage a password policy.

- **Native Nuance Management Center authentication**—Users log in to Nuance Management Center using a login and password that you create when you create user accounts in the NMC console.

Password settings

Nuance Management Center provides password options that you can select to establish a user account password policy for your user accounts. Using the options, you can require specific password content, complexity, and expiration.

For more information, see the "Organization Details page" topic in the NMC Help.

Auditing

The Nuance Management Center auditing feature is a standard feature that cannot be disabled. Auditing tracks specific system events that occur in the NMC console, capturing information about those events to allow you to better monitor the actions that occur. The NMC console allows administrators to audit specific events, such as user or administrator logins, over a specific period of time.

By default, Nuance Management Center retains event data for one year.

For more information, see the "Viewing audit events" topic in the NMC help.

User Access Control

Nuance Management Center allows you to implement user access control using roles and permissions to restrict user access to only what is necessary for users to perform their job responsibilities. Before implementing user access control, establish an access control policy based on business and security requirements for each user. Review your access control policy periodically to determine if changes to roles and permissions are necessary.

Assigning privileges

Privileges determine the ribbons, menus, and options that users can access in the NMC console. You assign or unassign privileges to show or hide those options. You should assign the least amount of privileges that users require to perform all tasks relevant to their job responsibilities.

For more information on privileges and assigning them, see the **Configuring group security** section in the "Managing groups" topic in the NMC help and the "Privileges reference" appendix in the *Nuance Management Center Administrator's Guide*.

Assigning grants

Grants determine the objects that users can access in the Nuance Management Center database, such as sites, groups, and users. Generally, you assign different grants to providers than you would to administrators. You should also assign the least amount of grants that users require to perform their job responsibilities.

For more information on grants and assigning them, see the **Configuring group security** section in the "Managing groups" topic in the NMC help.

Disabling inactive users

Nuance Management Center allows you to disable inactive user accounts after a number of days of inactivity. Disabled users can no longer authenticate to Nuance Management Center. By disabling inactive user accounts, you can prevent unauthorized system access by employees who have left your organization.

For more information, see the **Disable inactive users after *n* days** Organization option in the "Organization Details page" topic in the NMC help.

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

- 1 GB for Acoustic Optimizer data associated with each dictation source of each user profile

Note: If you have a subscription to Dragon Professional, Dragon Legal, or Dragon Law Enforcement, Roaming User functionality is not applicable.

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.

Required access rights and permissions

The following table describes the permissions Dragon requires to allow all components to communicate with each other. These are the default permissions assigned at the time of your Windows installation and should not be changed.

Directory or registry key	Permissions or access rights	Users affected
`\Appdata\Local\Nuance\NS16` folder and all sub-folders	Read/Write	Windows user accounts for all users dictating on Dragon clients
`C:\Users\<Windows User ID>\AppData\Local` folder and all sub-folders, including the RoamingUsers directory (if the Roaming feature is used)	Read/Write	Windows user accounts for all users dictating on Dragon clients
`HKEY_LOCAL_MACHINE\SOFTWARE\Nuance`	Rights to update the registry	Windows accounts used on workstations running the Dragon client
`HKEY_CURRENT_USER\SOFTWARE\Nuance`	Rights to update the registry	Windows accounts used on workstations running the Dragon client

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.

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	• 12GB (includes downloaded installation files)
Supported operating systems	• Windows 10 (32-bit and 64-bit) and 11 (64-bit) • Windows Server 2016 • Windows Server 2019 • Windows Server 2022

Other	• Microsoft Edge or the current version of Chrome or Firefox for online Help and for installation if installing from the Web
	
	• Microsoft .NET Framework version 4.8 or later.
	
	Generally, the .NET Framework is pre-installed on Windows 10 and 11 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.
	
	• Microsoft Visual C++ 2019 Runtime
	
	If you do not have it installed, you are prompted to install it during Dragon's installation.
	
	• **NMS Mode**: If you are using a Dragon edition where Nuance Management Center/NMS mode is enabled to help you manage and monitor your system, you'll need:
	
	    • An internet connection to connect to the Nuance Management Center (NMC) Server
	
	    • A Nuance Management Center login and password to log in to Dragon
	
	      Your Administrator provisions a Dragon user account in Nuance Management Center for you and assigns the appropriate license. You'll use this login and password to log in to the Dragon client.
	
	• An audio input device capable of 16-bit recording for dictation
	
	• **Note:** Apple AirPods are not supported for dictation with Dragon.

Chapter 3: Initial Installation of Dragon

Install Dragon and choose the default settings

Install Dragon on the client computer using the downloaded installer file. 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.
>
> - The installation process does not present the QuickStart option. You can enable this option in the Options dialog box after Dragon is installed. For more information, see the online Dragon help.

Initial installation

To perform an initial installation of Dragon, run the `setup.exe` file from the downloaded installation files.

1. Browse to the area where you downloaded Dragon and double-click setup.exe to run it.

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. Not applicable if you have a subscription to Dragon Professional, DragonLegal, or Dragon Law Enforcement.

    > **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 64.

  - **Miscellaneous** (Stand-alone mode only)—Set other administrative options. Not applicable if you have a subscription to Dragon Professional, DragonLegal, or Dragon Law Enforcement.

  - **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. Not applicable for Dragon Professional subscription editions.

    > **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:

\AppData\Local\Nuance\NS16\RoamingUsers\

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 22. Otherwise, see "Overview—Installing the Dragon client with initial settings" on page 27.

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\NaturallySpeaking16

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 10: **Start > All apps > Windows System > Command Prompt**

3. Switch to the program directory. The default is:

   C:\Program Files (x86)\Nuance\NaturallySpeaking16\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:

   \AppData\Local\Nuance\NS16\RoamingUsers\<display name>\<username>

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 35.

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 .

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>	Opens the specified user profile (**Stand-alone mode only**)
/User <username> <password>	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

Switch	Function
	custom vocabulary.

Upgrading Dragon

Before you upgrade

Dragon automatically upgrades Dragon 13, 14, and 15 to Dragon 16. Please note the following:

- You can easily upgrade between different versions of the same edition, for example Dragon Professional Group V15.x to Dragon Professional V16.

- If you are upgrading from Dragon Professional or Dragon Legal to Dragon Law Enforcement V16, your user profiles will not be automatically update to V16. Before upgrading, you'll need to export your custom words and commands and then import them into V16. See Exporting custom words and Exporting custom commands for more information.

- If you are upgrading from Dragon 12 or earlier, you must do the following:

  - Open Dragon 12 or earlier and export your custom words and commands. See Exporting custom words and Exporting custom commands for more information.

  - Delete your installation of Dragon 12 or earlier.

  - Install Dragon 16 and create a new profile when prompted.

  - Open the new profile in Dragon 16 and import your custom words and commands from your Dragon 12 or earlier installation.

Best practices

Before you upgrade, Nuance recommends exporting your   custom words and commands for sake-keeping. You'll need these files in case you need to re-install your previous version of Dragon.

Your user profiles' vocabulary may include custom words or phrases you added manually or the email and document analysis feature and words Dragon learned during the process of correcting misrecognitions, such as specialized words, names, acronyms, and abbreviations.

Exporting/importing custom words (optional)

1. From the DragonBar, select **Vocabulary Center>Export custom word and phrase list**.

2. Specify a file name for the text file.

3. Click **Save**. Remember this location.

If you need to re-import your custom word:

1. From the DragonBar, select **Vocabulary>Import list of words or phrases** and then click **Next**.

2. Click **Add File** and navigate to the text (.txt) file containing the list of words and phrases you exported..

3. Select the file, and then click **Open** and click Next to let Dragon analyze the file.

4. Continue to click **Next** until the import completes.

Exporting/importing custom commands (optional)

1. From the DragonBar, select **Tools>Command Center**.

2. Select **Mode>Manage**.

3. To export only custom commands, choose **User-defined** in the **Group** drop-down list.
   If you do not see **User-defined** commands in the drop-down list, you do not have any custom commands.

4. Click the plus sign (+) to expand the list of commands.

5. Select the check box next to the commands to export.

6. Click **Export**. Remember this location.

If you need to re-import your custom commands:

1. From the DragonBar, select **Tools>Command Browser**.

2. From the Command Browser menu, select **MyCommands>Import**.

3. Navigate to the data (.dat) file containing the custom commands you exported.

4. Select the file, and then click **Open**.

5. Select the commands you want to import, and then click **Import**.

6. Click **OK**.

Upgrading to Version 16

Dragon supports automatic upgrades from the Dragon version 13, 14 and 15.

You do not need to uninstall your existing version first. Dragon also retains your custom words and commands. If you are using a Dragon edition where Nuance Management Center/NMS mode is disabled (Standalone mode), Dragon then upgrades your user profiles when you open them.

To upgrade:

1. Close any open programs.

2. If you're running an anti-virus program, turn it off until the installation completes.

3. If you have not already done so, download `Dragon.exe`, then double-click to run the installer. The installation begins immediately and the requested files are downloaded and installed.

4. If prompted, install the Microsoft .NET Framework 4.8.

   You may need to restart the computer after installing the .NET Framework.

5. In the Dragon InstallShield wizard, click **Next** to begin the Dragon installation.

6. Read the license terms and click the radio button to indicate you agree to the terms.

7. Click **Next** to proceed to the next screen.

8. Enter the Dragon 16 product serial number, then click **Next**.

9. Select your region and, optionally, select the **Advanced** check box to change the installation directory.

10. Click **Next**.

      a. If you selected the **Advanced** check box, installation directory, click **Change**.

      b. Browse to the directory where you want to install Dragon.

      c. Click **Next**.

11. Click **Install**.

    The installation begins.

    If you selected check boxes next to options in the Advanced screen, a screen appears, allowing you to customize these settings.

12. If you upgraded to one of the following editions, Activate Dragon:

    - Dragon Professional (single user)
    - Dragon Legal (single user)

Activate Dragon

The first time you start Dragon 16, you are prompted to activate the product. If you skip activation, you can launch Dragon in Trial mode five times. After five launches, you must activate Dragon to continue using the product.

These instructions assume you have an internet connection available on the computer where you installed Dragon.

1. Launch Dragon.

   The Activation dialog box appears.

2. Select **Activate Product**, and then click **Next**.

3. Dragon prepopulates the field with your serial number. Click **Next** to continue.

4. Click **Finish**.

   Dragon is activated.

Chapter 4: Installing the Dragon client with settings

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 29
- `Dragon 16.msi`—See "Command Line installation with msiexec.exe" on page 30
- `admininstall.bat`—See "Performing an administrative installation with a batch file" on page 29

> **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 64.

> **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 16.msi` or `admininstall.bat` to perform a push installation.

Several servers support this type of network installation:

- Windows Server 2022
- Windows Server 2019
- Windows Server 2016
- Windows Server 2012 R2
- System Management Server (SMS)
- Active Directory

Dragon supports the Active Directory Assign to Computers installation option.

For an administrative installation, the administrator creates an image of the installation program on the server and then configures the server to automatically push the application onto the client systems. You can also configure network installations to modify, repair, or remove an existing installation.

Support for SMS and Windows Server with Active Directory

Systems Management Server (SMS) provides a mechanism for pushing application installations out from the server to client systems. SMS supports using the Windows Installer (MSI) to push installations on clients using Windows 10 or 11. SMS requires that a client application be installed on all client computers.

The Group Policy component of Active Directory includes a Software Installation snap-in that lets an administrator create a network installation. Administrators can use this feature to install software onto Windows 10 and 11 clients.

Dragon supports the Active Directory Assign to Computers installation option. This option successfully installs the software when the computer is restarted. Administrators can delay installation on Windows clients by enabling logon optimization for group policy; for this type of installation, you can view an entry for the installation in the event log after the first restart. The installation is then performed on the second restart. The installation takes place silently, and the software is installed for all users on the computer. When you perform a silent installation of Dragon, the installation process does not display any messages. To view installation messages, administrators should view the setup log.

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 10: **Start > All apps > Windows System > Command Prompt**

2. Browse to the area where you downloaded Dragon and double-click setup.exe to run it.

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\NaturallySpeaking16\"
   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 `admininstall.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 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 `admininstall.bat` and follow it with the location of `Dragon 16.msi`. For example:

   ```
   admininstall.bat "C:\<full_path>\Dragon 16.msi"
   ```

Understanding the script in admininstall.bat

Below are some of the lines from the script in the `admininstall.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 16.msi:

```
set NETWORK_DNS_DIR=%1%
```

When you run the admininstall.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 64 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 16.msi, is located in the downloaded installation files.

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 10: **Start > All apps > Windows System > Command Prompt**

2. In the downloaded installation files, find the directory where Dragon 16.msi is located.

3. In the Command Prompt window, switch to the Dragon 16.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 16.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

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 20) 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 22).

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 and you have a single-node deployment, enter the address of your NMC server.

   - If you are using your own NMC server on premise and you have a multi-node deployment, enter the address of the load balancer.

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.

Enabling TLS

The Dragon Professional client requires the use of TLS 1.2 to connect to the Nuance Management Center server. If it is not already enabled, you must enable it on your Nuance Management Center server to allow the clients to communicate to Nuance Management Center.

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 35.

Option 1

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

1. 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 58.

   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 22.

2. Replace the `nsdefaults.ini` file in `C:\ProgramData\Nuance\NaturallySpeaking16` 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\NaturallySpeaking16` 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

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 22). 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 29.

Auto-Formatting dialog box

Auto-Formatting options

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

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

Option	Description and user interface equivalent

Formatting disabled:
 	
`;(AbbreviationTitle) Abbreviate tit&les`
 	
`AbbreviationTitle=0`
	automatically.
	
	Default: Disabled

Formatting enabled:
 	
`;(PhoneNumber) Phone num&bers`
 	
Formatting disabled:
 	
`;(PhoneNumber) Phone num&bers`
 	
`PhoneNumber=0`
	Phone numbers check box:
	
	If enabled, Dragon formats sequences of digits as phone numbers.
	
	Note: Dragon can only format phone numbers for the same region as the current user profile (US/Canada or UK).
	
	If disabled, Dragon does not format number sequences as phone numbers.
	
	Default: Enabled

Formatting enabled:
 	
`;(Date) &Dates`
 	
Formatting disabled:
 	
`;(Date) &Dates`
 	
`Date=0`
	Dates check box:
	
	If enabled, Dragon formats dates in the preferred format (see next row for details).
	
	If disabled, Dragon does not format dates automatically.
	
	Default: Enabled

Dates as spoken:
 	
`;(DateFormat)`
 	
All other formats:
 	
`;(DateFormat)`
 	
`DateFormat=<format>`
	Dates drop-down menu:
	
	If date formatting is enabled, select a preferred format for dates, such as:
	
	• Month DD, YYYY
	• Mon D, YYYY
	• MM-DD-YY
	• D Month, YYYY
	• D/M/YY
	• DD-Mon-YY
	
	Default: Dates As Spoken

Formatting enabled: `;(Price) &Prices`	**Prices** check box: If enabled, Dragon formats prices and currencies with the appropriate currency symbol. Supported currencies are: • USD ($, US$) • CAD (C$) • EUR (€) • JPY (¥) • GBP (£)

Option	Description and user interface equivalent
	• CHF (F)

Formatting disabled:
 	
`;(Price) &Prices`
 	
`Price=0`
	If disabled, Dragon does not format currency automatically.
	
	Default: Enabled

Formatting enabled: `;(Time) &Times`	**Times** check box: If enabled, Dragon automatically formats standard or military times.

Formatting disabled:
 	
`;(Time) &Times`
 	
`Time=0`
	If disabled, Dragon transcribes times exactly as spoken with no formatting.
	
	Default: Enabled

Formatting disabled: `;(AbbreviationOther) Common abbre&viations`	**Common abbreviations** check box: If enabled, Dragon uses standard abbreviations such as "vs." or "etc." when transcribing dictation.

Formatting enabled:
 	
`;(AbbreviationOther) Common abbre&viations`
 	
`AbbreviationOther=1`
	If disabled, Dragon does not abbreviate common words automatically.
	
	Default: Disabled

Formatting disabled: `;(AddressUKAndCanada) U&K and Canadian postcodes`	**UK and Canadian postcodes** check box: If enabled, Dragon formats sequences of letters and numbers as UK or Canadian postcodes.

Formatting enabled:
 	
`;(AddressUKAndCanada) U&K and Canadian postcodes`
 	
`AddressUKAndCanada=1`
	If disabled, Dragon does not format UK and Canadian postcodes automatically.
	
	Default: Disabled

Formatting disabled: `;(Contraction) Expand &contractions`	**Expand contractions** check box: If enabled, Dragon expands spoken contractions such as "don't" or "isn't."

Formatting enabled:
 	
`;(Contraction) Expand &contractions`
 	
`Contraction=1`
	If disabled, Dragon transcribes contractions exactly as dictated.
	
	Default: Disabled

Formatting enabled: `;(OtherNumber) Ot&her numbers`	**Other numbers** check box: If enabled, Dragon applies formatting to numbers, such as negative numbers, fractions, and decimals.

Formatting disabled:
 	
`;(OtherNumber) Ot&her numbers`
 	
`OtherNumber=0`
	If disabled, Dragon will transcribe numbers exactly as dictated.
	
	Default: Enabled

Formatting enabled:	**"million" instead of ",000,000"** check box:

Option	Description and user interface equivalent

`;(NumberHalfFormatted) "million"`
`instead of ",000,000`
 	
Formatting disabled:
 	
`;(NumberHalfFormatted) "million"`
`instead of ",000,000"`
 	
`NumberHalfFormatted=0`
	If enabled, Dragon writes the word "million" instead of six zeros when users dictate round numbers in the millions.
	
	If disabled, Dragon writes 1,000,000.
	
	Default: Enabled

Formatting disabled:
 	
`;(SocialSecurityNumbers) US &Social`
`Security Numbers`
 	
Formatting enabled:
 	
`;(SocialSecurityNumbers) US &Social`
`Security Numbers`
 	
`SocialSecurityNumbers=1`
	US Social Security Numbers check box:
	
	If enabled, Dragon formats sequences of nine numbers as a US Social Security Number.
	
	If disabled, Dragon does not insert hyphens into nine-digit numbers.
	
	Default: Disabled

Use numerals over 10:
 	
`;(NumberRange)`
 	
All other settings:>
 	
`;(NumberRange)`
 	
`NumberRange=<value>`
	Numbers, if greater than or equal to check box:
	
	If enabled, Dragon formats numbers as numerals when they are greater than or equal to the specified value (0, 2, 10, or 100).
	
	If disabled, Dragon does not format numbers as numerals.
	
	Default: 0

Single space after a period:
 	
`;(TwoSpacesAfterPeriod) &Insert two`
`spaces after period`
 	
Two spaces after a period:
 	
`;(TwoSpacesAfterPeriod) &Insert two`
`spaces after period`
 	
`TwoSpacesAfterPeriod=1`
	Insert two spaces after period check box:
	
	If enabled, Dragon inserts two spaces at the end of sentences.
	
	If disabled, Dragon adds only one space.
	
	Default: Disabled

Formatting enabled:
 	
`;(CrossUtteranceFormatting) Allow`
`pauses in fo&rmatted phrases`
 	
Formatting disabled:
 	
`;(CrossUtteranceFormatting) Allow`
`pauses in fo&rmatted phrases`
 	
`CrossUtteranceFormatting=0`
	Allow pauses in formatted phrases check box:
	
	If enabled, Dragon applies Auto-Formatting to numbers and phrases even when users pause while saying them.
	
	If disabled, automatic number and phrase formatting may not take effect if the user pauses.
	
	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.

General settings

Option	Description and user interface equivalent
`User Base Directory= "<directory>"` **Default**: None	Sets the location of non-Roaming user profiles. **Example**: `\AppData\Nuance\NS16\Users\`

Correction settings

Option	Description and user interface equivalent
`enx Select Brings Up Choicebox=0/1` **Default**: 1 (selected)	**"Select" commands bring up Correction menu** check box: If set to 1, the Correction menu appears when the user says "Select <*text*>" or "Select Again" in dictated text. If set to 0, the Correction menu does not appear.
`Select XYZ Direction=4/8` **Default**: 4 (deselected)	**"Select" commands search backwards** check box: If set to 8, Dragon searches backward from the cursor for matching text when the user says "Select" commands. If set to 4, Dragon searches forward from the cursor.
`enx Correct Brings Up Choicebox=0/1` **Default**: 0 (deselected)	**"Correct" commands bring up Spelling Window** check box: If set to 1, the Spelling window appears when the user says "Correct <*text*>" or "Correct That" in dictated text. If set to 0, the Spelling window does not appear.
`Spell Brings Up Spell Dialog=0/1` **Default**: 0 (deselected)	**"Spell" commands bring up Spelling Window** check box: If set to 1, the Spelling window appears when the user says "Spell <*letters*>" or "Spell That <*letters*>" in dictated text. If set to 0, the Spelling window does not appear.
`Automatically Add Words=0/1` **Default**: 1,1 (selected)	**Automatically add words to active vocabulary** check box: If set to 1, Dragon adds corrected words to the active vocabulary automatically. If set to 0, users must add corrected words to Dragon's vocabulary manually using the Vocabulary Editor.

Option	Description and user interface equivalent
	Note: The values for these two options must match.
`Playback In Correction Dialog=0/1` **Default**: 0 (deselected)	**Automatic playback on correction** check box: If set to 1, Dragon plays back dictation automatically when the user corrects dictated text. If set to 0, Dragon does not play back dictation when users correct text.
`Show Smart Format Rules=0/1` **Default**: 1 (selected)	**Show Smart Format Rules** check box : If set to 1 and you have also implemented auto-formatting options, Dragon prompts users when they attempt to correct auto-formatted text. If set to 0, Dragon does not prompt users when they correct auto-formatted text.

`Display Terse Caption In Choicebox=0/1`
 	
`Display Commands In Choicebox=0/1`
 	
`Display Choose With Choices=0/1`
 	
Default: 0,1,1 (deselected)
	Show only the choices check box:
	
	If set to 0, 1 and 1, respectively (selected), only alternative words and phrases appear on the Correction menu.
	
	If set to 1, 0 and 0, respectively (deselected), Dragon displays command suggestions in addition to alternative words or phrases.

`Pin Choicebox=0/1` **Default**: 0 (deselected)	**Anchor** check box: If set to 1, the Correction menu remains in its current location until the user manually drags it to a new location. If set to 0, the Correction menu floats around the window as the user selects text by voice.
`Double Click for Correction=0/1` **Default**: 0 (deselected)	**Enable double-click to correct** check box: If set to 1, the Correction menu opens when the user double-clicks a word. If set to 0, the Correction menu does not open when the user double-clicks a word.
`enx Max Items in Choicebox=<1-9>` **Default**: 9	**Show no more than <*number*> options** number box: Determines the maximum number of choices that appear in the Correction menu.

Commands settings

Option	Description and user interface equivalent
`Enable Mouse Motion Mode=0/1`	**Enable mouse motion commands** check box:

Option	Description and user interface equivalent
Default: 1 (selected)	If set to 1, enables mouse motion commands, such as "Move Mouse Left." If set to 0, mouse motion commands are disabled.
`Mouse Movement=<1-25>` **Default**: 2	**Mouse movement speed** numbers box in the Speed dialog box: Sets the speed of mouse movement when using mouse motion commands. Use a number between 1 (slowest) and 25 (fastest).
`Enable IE Support=0/1` **Default**: 1 (selected)	**Enable HTML support** check box: If set to 1, allows Dragon to work with Internet Explorer and Chrome. If set to 0 and the Dragon Web Extension is installed, the user cannot select web page elements by voice or dictate directly in web page fields.
`Enable IE Commands=0/1` **Default**: 1 (selected)	**Enable commands in HTML windows** check box: If set to 1, enables commands for use with Internet Explorer and Chrome. If set to 0, disables some Internet Explorer and Chrome commands, and voice commands in some Microsoft Outlook dialog boxes.
`Click Command Required in IE=0/1` **Default**: 1 (selected)	**Require "Click" to select hyperlinks in HTML windows** check box: If set to 1, Dragon requires users to say "Click *<link text>*" to click a link in web browsers. This option prevents Dragon from clicking links unintentionally during dictation. If set to 0, users can say the link text to click.
`Click Command Required For Menus=0/1` **Default**: 1 (selected)	**Require "Click" to select menus** check box: If set to 1, Dragon requires users to say "Click *<menu>*" to open a menu. This option prevents Dragon from clicking menus unintentionally during dictation. If set to 0, users can say the name of the menu to click.
`Click Command Required For Controls=0/1` **Default**: 1 (selected)	**Require "Click" to select buttons and other controls**: If set to 1, Dragon requires users to say "Click *<control>*" to click a button or other control. This option prevents Dragon from clicking menus unintentionally during dictation. If set to 0, users can say the name of a button or control to click.
`Use Recognition Mode Commands=0/1`	**Enable recognition mode switching commands** check box:

Option	Description and user interface equivalent
Default: 1 (selected)	If set to 1, users can switch recognition modes by voice.
	If set to 0, users must switch recognition modes using the DragonBar.
`Start Web Search=0/1` **Default**: 1 (selected)	**Enable Web search commands** check box: If set to 1, enables Web searching commands based on natural speech. For example, "Search the web for weather in Seattle." If set to 0, disables web searching commands.
`Start Desktop Search=0/1` **Default**: 1 (selected)	**Enable Desktop search commands** check box: If set to 1, enables Desktop searching commands based on natural speech. For example, "Search Computer for time sheets." If set to 0, disables Desktop searching commands.
`Edit Intuitive Search Keywords=0/1` **Default**: 1 (selected)	**Display search text before performing search** check box: If set to 1, Web and Desktop search commands appear in the Edit Search Keywords dialog box before Dragon performs the search. Use this option to edit the search terms or insert special characters. If set to 0, Dragon performs Web and Desktop searches without allowing the user to edit the search terms.
`Start Email=0/1` **Default**: 1 (selected)	**Enable email and Calendar commands** check box: If set to 1, enables Microsoft Outlook commands based on natural speech. These commands allow users to create email, appointments, meetings, and tasks. If set to 0, disables the natural-language Email and Calendar commands.
`Do Cut XYZ=0/1` **Default**: 0 (deselected)	**Enable Cut shortcut commands** check box: If set to 1, enables the Cut shortcut command. If set to 0, the user must first select the text and then say "Cut That."
`Do Delete XYZ=0/1` **Default**: 1 (selected)	**Enable Delete shortcut commands** check box: If set to 1, enables the Delete shortcut command. If set to 0, the user must first select the text and then say "Delete That."
`Do Delete From XYZ=0/1`	Setting is not relevant for Dragon.
`Do Copy XYZ=0/1` **Default**: 1 (selected)	**Enable Copy shortcut commands** check box: If set to 1, enables the Copy shortcut command. If set to 0, the user must first select the text and then say

Option	Description and user interface equivalent
	"Copy That."
`Show disambiguation numbers=0/1` **Default**: 1(selected)	**Enable multiple text matches** check box: If set to 1, enables Dragon to find multiple matches to text matching commands. If set to 0, Dragon finds only the matching text instance closest to the cursor position.
`Enable Starting Apps On StartMenu=0/1` **Default**: 1 (selected)	**Enable launching from the Start menu** check box: If set to 1, users can open applications on the Start menu by voice using direct commands, such as "Open Microsoft Word." If set to 0, users must say the full Start menu path, such as "Click Start," then "Click All Programs," then "Click Microsoft Word."
`Enable Starting Apps On Desktop=0/1` **Default**: 1 (selected)	**Enable launching from the desktop** check box: If set to 1, users can launch applications, open folders, and shortcuts on the Desktop by voice using direct commands, such as "Open My Documents." If set to 0, users cannot launch from the Desktop by voice.

`Left Text Field Delimiter=[`
 	
`Right Text Field Delimiter=]`
 	
Default: Left bracket ([) and Right bracket (])
	Left variable delimiter and **Right variable delimiter** text boxes:
	
	Determines the delimiters used to indicate variable fields in Auto-Text commands. You can specify delimiters up to five characters long. You cannot specify the same value for each delimiter.
	
	Note: If you change the default delimiters, Dragon uses the new delimiters for Auto-Text commands, but ignores variables in square brackets when you use the Accept Defaults and Clear Variable Delimiters commands.

`Enable Automatically Select First Field=0/1` **Default**: 1 (selected)	**Enable Automatically Select First Field** check box: If set to 1, Dragon places the cursor in the first form field automatically when the user dictates in an application with form fields. If set to 0, the user must place the cursor manually.
More Commands	
Default: Selected	**Enable Natural Language commands** check box **Note**: This option is controlled by the two settings below.

Option	Description and user interface equivalent
`enx Use Natural Language Commands=0/1` **Default**: 1	If set to 1, enables Natural Language Commands. This feature requires an additional 8 MB of memory. If set to 0, disables all Natural Language Commands.
`Disable NLP support=0/1` **Default**: 0	If set to 0, enables application-specific Natural Language Commands. If set to 1, disables application-specific Natural Language Commands. Global Natural Language Commands remain enabled.
`Enable NLP Word=0/1` **Default**: 1 (selected)	**Enable Microsoft Word commands** check box If set to 1, enables Natural Language Commands in Microsoft Word. If set to 0, disables Natural Language Commands in Microsoft Word.
`Enable NLP Excel=0/1` **Default**: 1 (selected)	**Enable Microsoft Excel commands** check box: If set to 1, enables Natural Language Commands in Microsoft Excel. If set to 0, disables Natural Language Commands in Microsoft Excel.
`Enable NLP PowerPoint=0/1` **Default**: 1 (selected)	**Enable Microsoft PowerPoint commands** check box: If set to 1, enables Natural Language Commands in Microsoft PowerPoint. If set to 0, disables Natural Language Commands in Microsoft PowerPoint.
`Enable NLP WordPerfect=0/1` **Default**: 1 (selected)	**Enable Corel WordPerfect commands** check box: If set to 1, enables Natural Language Commands in Corel WordPerfect. If set to 0, disables Natural Language Commands in Corel WordPerfect.
`Turn Off Facebook Commands=0/1` **Default**: 1 (selected)	**Enable Facebook post commands** check box: If set to 1, enables posting directly to Facebook by voice. If set to 0, users must browse to Facebook in a Web browser to post.
`Turn Off Twitter Commands=0/1` **Default**: 1 (selected)	**Enable Twitter post commands** check box: If set to 1, enables posting directly to Twitter by voice. If set to 0, users must browse to Twitter in a Web browser to post.

Appearance settings

Option	Description and user interface equivalent
DragonBar	
`DragonBar Mode=5`	Determines the location and appearance of the DragonBar. The options are:
	• **Modern DragonBar** (5)—The Modern DragonBar appears at the top of your screen.
`DragonBar Mode=0`	• **Classic DragonBar: Docked to Top** (0)—The Classic DragonBar appears docked to the screen's edge. `DragonBar Docked Mode`, below, determines the placement of the DragonBar.
`DragonBar Mode=0`	• **Classic DragonBar: Docked to Bottom** (0)—The Classic DragonBar appears docked to the screen's edge. `DragonBar Docked Mode`, below, determines the placement of the DragonBar.
	• **Classic DragonBar: Floating** (1)—The Classic DragonBar appears as a window on top of other open windows. Users can drag the Classic DragonBar to reposition it.
`DragonBar Docked Mode=1`	• **Classic DragonBar: Cling** (2)—The Classic DragonBar appears at the top of the current active window.
	• **Start Dragon minimized in the tray** —The DragonBar appears only as a microphone icon in the system tray. Right-click on the icon to open the menu.
`DragonBar Mode=2`	**Note**: This setting determines the availability of the options below.
Option enabled: Small DragonBar Auto Collapse=1 **Option disabled**: Small DragonBar Auto Collapse=0	
`Modern DragonBar Auto Collapse=0/1` **Default**: 1 (selected)	**Auto-collapse** check box: If set to 1, the Modern DragonBar collapses when not in use. If set to 0, the Modern DragonBar remains expanded at all

Option	Description and user interface equivalent
	times. **Note**: If DragonBar Mode is not set to 5, this setting is ignored.

Results Box

Option	Description and user interface equivalent
Results Box Pinned=0/1 **Default**: 0 (deselected)	**Anchor** check box: If set to 1, the Results box is locked in place until the user drags it to a new location. If set to 0, the Results box appears with the text as the user dictates.
Results Box Feedback Strategy=10/20 **Default**: 20 (deselected)	**Show preliminary results** check box: If set to 10, preliminary and final results appear in a text box before dictation is transcribed in the document. If set to 20, only final results appear.
enx Beep On Phrase Finish=0/1 **Default**: 0 (deselected)	**Beep after recognition** check box: If set to 1, Dragon beeps each time it recognizes a word or phrase. If set to 0, no sound occurs.
Note: This option is controlled by the three settings below. **Default**: Never hide	**Auto-hide delay** drop-down menu: Determines whether the Results box is shown, and if shown, how long it appears.
Results Box Disable=0/1 **Default**: 0	If set to 1, the Results box is never shown. Results Box Enable Auto Close and Results Box Auto Close Delay are ignored. If set to 0, the Results box is shown when Dragon is listening.
Results Box Enable Auto Close=0/1 **Default**: 0	If set to 0, the Results box is always visible when Dragon is listening. Results Box Auto Close Delay settings are ignored. If set to 1, the Results box auto-hides after a period of time specified in Results Box Auto Close Delay.
Results Box Auto Close Delay=<*seconds*> **Default**: 10	Determines the delay, in seconds, that Dragon waits before auto-hiding the Results Box.

Hot keys settings

> **Note**: Hot keys are noted in the format *<JavaScript key code>, <modifier>*. Modifier keys are noted as follows: No modifier=0; Shift=1; Alt=2; Ctrl=4

Option	Description and user interface equivalent
`Microphone Hot Key=` *<key>,<modifier>*	**Microphone on/off** key combination: Turns Dragon's microphone on and off.
`Correction Hot Key=` *<key>,<modifier>*	**Correction** key combination: Opens the Correction menu. > **Note**: You cannot open the Correction menu using a hot key when you are working in Web applications.
`Command Only Hot Key=` *<key>,<modifier>*	**Force command recognition** key combination: Forces Dragon to recognize words as commands rather than dictation.
`Dictation Only Hot Key=` *<key>,<modifier>* **Default**: `0,1` {Shift}	**Force dictation recognition** key combination: Forces Dragon to recognize words as dictation rather than commands.
`DragonBar Hot Key=` *<key>,<modifier>* **Default**: `106,0` {NumKey*}	**DragonBar menu** key combination: Opens the DragonBar Profile menu. > **Note**: To use with the New DragonBar, the DragonBar must not be collapsed.
`Sleep Hot Key=`*<key>,<modifier>* **Default**: `111,64` {NumKey/}	**Microphone sleep/on** key combination: Puts Dragon's microphone to sleep and wakes it up.
`Press-To-Talk Hot Key=` *<key>,<modifier>* **Default**: `0,0` (none)	**Press-to-talk** key combination: Allows you to talk to Dragon while you hold down the key. Dragon stops listening when you release the key.
`Dictation Box Hot Key=` *<key>,<modifier>* **Default**: `68,5` {Ctrl+Shift+D}	**Dictation Box** key combination: Opens the Dictation Box.
`Playback Hot Key=` *<key>,<modifier>* **Default**: `109,1` {Shift+NumKey-}	**Playback** key combination: Plays back dictation.
`Fast Playback Hot Key=` *<key>,<modifier>*	**Fast Playback** key combination: Increases the playback speed.

Option	Description and user interface equivalent
Default: 106,1 {Shift+NumKey*}	

`Select Next Variable Hot Key=`
`<key>,<modifier>`
Default: 78,5 {Ctrl+Shift+N}
	Next Field key combination:
	Selects the next variable field (Voice field) in an Auto-text. For more information on Auto-text fields, see the Dragon help.

Transfer Text Hot Key=<key>,<modifier>	**Transfer Text** Transfers text from the Unanchored Dictation Box to the application. **Default**: 84,5 {CTRL + SHIFT + T}
Hidden Mode Hot Key=<key>,<modifier>	**Hidden Mode** Starts and stops Hidden Mode. **Default**: 72,5 {CTRL + SHIFT + T}
Cancel Recognition Hot Key=<key>,<modifier>	**Cancel Recognition** Starts and stops recognition. **Default**: 0,0

Playback/Text-to-speech settings

Option	Description and user interface equivalent
`Playback Volume=<1-100>` **Default**: 100	**Playback volume** number box: Sets the playback volume.
`Playback Speed=<1-999>` **Default**: 100	**Playback speed** number box: Sets the playback speed.
`Fast-forward Volume=<1-100>` **Default**: 100	**Fast-forward volume** number box: Sets the fast forward volume if Rewind/Fast-Forward sounds are enabled.
`Fast-forward Speed=<1-999>` **Default**: 150	**Fast-forward** number box: Sets the fast forward speed.
`Rewind Volume=<1-100>` **Default**: 100	**Rewind volume** number box: Sets the rewind volume if Rewind/Fast-Forward sounds are enabled.
`Rewind Speed=<1-999>` **Default**: 150	**Rewind speed** number box: Sets the rewind speed.
`Monkey Cheater On=0/1` **Default**: 1 (selected)	**Play Rewind/Fast-Forward sound** check box: If set to 1, Dragon plays a sound when you fast forward or rewind a selection.

Option	Description and user interface equivalent
	If set to 0, Dragon does not play a sound.

Text-to-speech attributes

`[local.ini Options]`

Option	Description and user interface equivalent
`TTS Volume=<0-255>` **Default**: 255	**Volume** slider: Sets text-to-speech playback volume.
`enx TTS Speed=<0-255>` **Default**: 125	**Speed** slider: Sets text-to-speech playback speed.
`enx TTS Mode Name=<Voice>` **Default**: American English Samantha	**Voice** drop-down menu: Sets the voice used for text-to-speech playback.

Miscellaneous settings

Option	Description and user interface equivalent

Option enabled:
 	
`DragonBar Launch Item=1`
 	
Option disabled:
 	
`DragonBar Launch Item=0`
	Launch DragonPad check box:
	
	If set to 0, DragonPad opens when Dragon starts.
	
	If set to 1, DragonPad opens only when you select it from the Tools menu.
	
	Default: Deselected

Option enabled:
 	
`Microphone on at startup=1`
 	
Option disabled:
 	
`Microphone on at startup=0`
	When the User Profile Opens Have the microphone on but asleep check box:
	
	If set to 1, the microphone is in Sleep mode when Dragon starts.
	
	If set to 0, the microphone is off when Dragon starts.
	
	Default: Deselected

Option enabled:
 	
`Use Screen Reader Compatible Menus=1`
 	
Option disabled:
 	
`Use Screen Reader Compatible Menus=0`
	Use menus that are compatible with screen readers check box:
	
	If set to 1, allows a screen reader program to read menu items out loud to vision-impaired users.
	
	If set to 0, some screen readers may not read Dragon's menu items accurately.
	
	Default: Deselected.

Option enabled:
 	
`enx Use Active Accessibility=1`
 	
Option disabled:
 	
`enx Use Active Accessibility=0`
	Voice-enable menus, buttons, and other controls, excluding check box:
	
	If set to 1, users can control user interface elements by voice.
	
	If set to 0, voice control of user interface elements is

Option	Description and user interface equivalent
	disabled for all applications.
	To turn off voice control in specific applications, use the drop-down menu or the `Tracking Disabled App List` setting.
	Default: Selected
`Tracking Disabled App List= {<`*`applications`*`>}`	**Voice-enable menus, buttons, and other controls, excluding** drop-down menu:
	Disables voice control of user interface elements in specific applications.
	Default: {} (no selection)
`User Specific Time Before Mic Sleep=<`*`number`*`>`	**Put the microphone to sleep after <n> minutes of silence** number box:
	Determines the number of minutes of silence after which Dragon puts the microphone into Sleep mode. Specify a value between 5 and 120 minutes.
	Note: Nuance does not recommend a value greater than 10, as Dragon can misrecognize ambient noise as speech.
	Default: 5
Option enabled: `AlertWhenSignalQualityIsPoor=1` **Option disabled**: `AlertWhenSignalQualityIsPoor=0`	**Alert when audio quality is low** check box: If set to 1, Dragon warns users when dictation audio quality is low. If set to 0, Dragon suppresses audio quality alerts. **Default**: Selected
Option enabled: `Use Dictation Box=1` **Option disabled**: `Use Dictation Box=0`	**User Dictation Box for unsupported applications** check box: If set to 1, Dragon's Dictation Box appears automatically when you dictate in a text field where Full Text Control is unavailable (PowerPoint or Google Docs, for instance.) If set to 0, the Dictation Box does not automatically appear. **Default**: Selected
Option enabled: `Alert On Compatibility Module Disconnection=1` **Option disabled**: `Alert On Compatibility Module`	**Alert in case of disconnections of target applications** check box: If set to 1, a warning appears when a Dragon compatibility module for a supported application becomes disabled. Compatibility modules enable Full Text Control. If set to 0, no warning appears.

Option	Description and user interface equivalent
`Disconnection=0`	**Default**: Selected
Option enabled: Use Light Editor=1 **Option disabled**: Use Light Editor=0	Setting does not apply to Dragon.
Option enabled: Sample commands launch on open=1 **Option disabled**: Sample commands launch on open=0	Setting does not apply to Dragon.

Data settings

Option	Description and user interface equivalent
`Save Correction To Archive=0/1` **Default**: 1 (selected)	**Store corrections in archive** check box: If set to 1, stores corrections for use by Dragon's Acoustic and Language Model Optimizer. If set to 0, Dragon displays a message that there is not enough data to continue when optimization runs.
`AO Archive Time Limit=<number>` **Default**: 3360000 milliseconds maximum	**Archive Size** slider in the Archive Size dialog box: Sets the acoustic data archive size in milliseconds. Dragon requires approximately 80 MB of disk space for 30 minutes of acoustic data.
`Collect Dictation Data=0/1` **Default**: 1 (deselected)	**Conserve disk space required by user profile** check box: If set to 1, Dragon maintains a standard-sized set of user profiles. If set to 0, Dragon maintains a smaller set of user profiles to allow you to move them to other computers more efficiently.
`Save Speech With Document=0/1/2` **Default**: 0 (Never)	**Save recorded dictation with document** drop-down: Determines whether dictation audio (`.DRA` files) is saved when the user saves a dictated document. The options are: • 0=Never • 1=Ask me • 2=Always
`Backup Frequency=<number>` **Default**: 5	**Automatically back up user profile every *<number>* saves number box** check box: Determines how often Dragon backs up user profiles when the user saves them.

Option	Description and user interface equivalent
	Note: This option is ignored if you set `Disable Back Up User Profiles=1`.
`Disable Back Up User Profiles=0/1` **Default**: 0 (deselected)	**Don't back up user profile** check box: If set to 1, Dragon does not back up user profiles. If set to 0, Dragon backs up user profiles using the `Backup Frequency=<number>` setting above.
Advanced dialog box	
`Do Usability Logging=0/1` **Default**: 0 (deselected)	**Create usability log** check box: If set to 1, Dragon logs all menu commands, toolbar buttons, and voice commands used during a dictation session. If set to 0, Dragon does not create a usability log. If you call Nuance technical support, you may be asked to create a usability log.

PowerMic settings

Option	Description and user interface equivalent
`Enable PM III Touchpad=0/1` **Default**: 1	**Enable touchpad swipe** check box: 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		Global context		Dictation Box context	
		Code	Default	Code	Default
Transcribe		1 6	8 (Show dictation box)	4 6	23 (Transfer text)
Tab Backward		1 7	37 (Tab backward)	4 7	37 (Tab backward)

Button		Global context		Dictation Box context	
		Code	Default	Code	Default
Tab Forward		1 8	17 (Tab forward)	4 8	17 (Tab forward)
Dictate		1 1	7 (Press-to-talk)	4 1	7 (Press-to-talk)
Rewind		1 2	29 (Previous field)	4 2	29 (Previous field)
Fast Forward		1 4	30 (Next field)	4 4	30 (Next field)
Stop/Play		1 3	33 (Accept defaults)	4 3	33 (Accept defaults)
Custom Left		1 9	3 (Force command recognition)	4 9	19 (Press cancel button)
Enter/Select		1 10	23 (None)	4 10	24 (None)
Custom Right		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		1 17	39 (Right click)	4 17	39 (Right click)
Trigger (underneath)		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
Microphone on/off	1		Force normal recognition	14
Show correction window	2		Force dictation recognition	4
Microphone sleep/on	6		Force command recognition	3
Press-to-talk	7		Force numbers recognition	15
Train new word	12		Force spell recognition	13
Transcribe recording	16		Cancel recognition	51
Transfer text	23		Playback	9
Skip backward	21		Fast Playback	10
Skip forward	20		Fast forward	31
Press OK button	18		Rewind	32
Press cancel button	19		User Commands	22*
Tab forward	17		Left click	38
Previous field	29		Right 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
`Default Backup Location for User Profiles=<`*full path*`>` **Default**: Blank	**Backup location for user profiles** field: Sets the location where Dragon stores customized words and commands.

`Custom Directory=<`*full path*`>`
 	
(**Stand-Alone mode only**)
 	
Default:
`C:\ProgramData\Nuance\Nat-urallySpeaking16\custom`
	Data Distribution location field:
	
	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` (**Stand-Alone only**) **Default**: 1 (deselected)	**Disable use of Macro Recorder commands** check box: If set to 1, users cannot create or edit macro recorder commands. Users can still run the commands, however. If set to 0, users can create and edit macro recorder custom commands.
`Global MyCommands StepByStep Scripting=0/1` (**Stand-Alone only**) **Default**: 1 (deselected)	**Disable use of Step-by-Step commands** check box: 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**) **Default**: 1 (deselected)	**Disable use of Advanced Scripting commands** check box: 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` (**Stand-Alone only**) **Default**: 0 (deselected)	**Do not allow restricted users to modify vocabularies** check box: If set to 1, restricted Windows users cannot modify vocabularies.

Option	Description and user interface equivalent
	If set to 0, all Windows users can modify vocabularies.
`Global Enable Pause Results=0/1` (**Stand-Alone only**) **Default**: 0 (deselected)	**Record wave data between utterances** check box: 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` **Default**: 0 (deselected)	**Correction Only Mode** check box: 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` (**Stand-Alone only**) **Default**: 1 (deselected)	**Disable automatic acoustic model 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` (**Stand-Alone only**) **Default**: 1 (selected)	**Enable scheduled Data Collection** check box: If set to 1, enables Data Collection, which allows Dragon to 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` **Default**: 1 (selected)	**Enable scheduled Accuracy Tuning** check box: 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). 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. If you have a subscription to Dragon Professional, DragonLegal, or Dragon Law Enforcement, these settings are not applicable.

Options	Description and user interface equivalent
`Roaming User On=0/1` **Default**: 0 (deselected)	**Enable** check box: 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>`
 	
Default: None
	Display Name field in the Roaming User Network Location dialog box:
	
	Sets the name used to identify the Master Roaming user profile directory.

`Roaming User Master Directory=`
`"<network directory>"`
 	
Default: None
	Address field in the Roaming User Network Location dialog box:
	
	Sets the location of the Master Roaming user profile.

`Roaming User Partial Path=<directory>`	

`Roaming User Local Cache`
`Directory="<directory>"`
 	
Default: None
	Local directory (for cache) field:
	
	Sets the location of the locally cached Roaming user data.
	
	Example:
	
	`\Ap-`
	`pData\Local\Nuance\NS16\Roam-`
	`ingUsers\<display name>\<username>`

`User Base Directory RU=`
`"<directory>"`
 	
Default: None
	Sets the location of the local Roaming user profiles. Dragon creates this folder within the local cache directory above.
	
	Example:
	
	`\Ap-`
	`pData\Local\Nuance\NS16\Roam-`
	`ingUsers\<display name>\<username>`
	
	If Roaming is disabled, the `User Base Directory RU` is the same as the directory for non-Roaming user profiles (`\Ap-`
	`pData\Nuance\NS16\Users\`).

`User Base Directory=` `"<directory>"`	Sets the directory where non-roaming user profiles are stored.

Options	Description and user interface equivalent

Default:
`\Ap-`
`pData\Local\Nuance\NS16\Roam-`
`ingUsers\<display name>\<username>`
	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 Log=0/1` **Default**: `0` (deselected)	**Copy Dragon Log to Network** check box: 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` **Default**: `1` (selected)	**Save acoustic information** check box: If set to `1`, Dragon saves acoustic information with local user profiles. Saving the acoustic information ensures that 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 Saving=0/1` **Default**: `0` (deselected)	**Prompt before saving to network location** check box: 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 Files=0/1` **Default**: `0` (deselected)	**Conserve archive size on network** check box: 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

Options	Description and user interface equivalent
	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 Size=<archive size>` **Default**: 1000 MB per dictation source	**Disk space reserved for network archive** check box: 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` **Default**: 1 (deselected)	**Display Classic Open User Profiles dialog** check box: 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` **Default**: 1 (selected)	**Allow non-Roaming user profiles to be opened** check box: 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` **Default**: 1 (selected)	**Merge contents of vocdelta.voc into network user profile when file is full** check box: 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

Options	Description and user interface equivalent
	when the `vocdelta.voc` file reaches 90% of its maximum size.
`Roaming User Limited Network Traffic=0/1` **Default**: 0 (deselected)	**Access network at user profile open/close only** check box: 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` **Default**: 0 (selected)	**Ask before breaking locks on network user profiles (recommended)** check box: 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`
 	
`ASW Override=0/1`
 	
Default: 0 (deselected)
	Set audio levels on each machine check box:
	
	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.
	
	`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` **Default**: 0 (deselected)	**Enable NMS** check box: If set to 1, enables Nuance Management Center/NMS mode.

Option	Description and user interface equivalent
	If set to 0, disables Nuance Management Center/NMS mode. Dragon is in Standalone mode.
	Not applicable to Dragon Professional subscription customers.
`Default NAS Address=` *`<full NMC address>`* **Default**: None	**Server** field: Directs the Dragon client to the NMC cloud server or your on-premise server. If you are a Dragon Professional subscription customer, this server address is set to the subscription server by default.
`NAS Login As Windows User=0/1` **Default**: 0 (**Provide a login name and password**)	**Login Options** radio buttons: 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.
`Suppress notifications` **Default:** 0 (deselected)	**Stop subscription notifications** check box: If set to 1, disables subscription expiration notifications and grace period notifications. If set to 0, enables subscription expiration notifications and grace period notifications.

Appendix B: Options for MSI installations

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 16.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=<serial_number>` **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="<full_path>\`
`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 22). The Dragon installer uses this file to change the default settings for all users.

`ROAMINGUSERINI="<full_`	Indicates a default settings file (`roamingdef.ini`) used to

Options	Description
path>\roamingdef.ini" **Optional**	configure Roaming network settings. **Note:** This setting is not applicable if you have a subscription to Dragon Professional, DragonLegal, or Dragon Law Enforcement.
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 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. 0: Deselected. The Auto-Formatting dialog box does not appear during installation. 1: Selected. The Auto-Formatting dialog box appears during installation.
PERIODIC_TASK=<tasks>;<admin>; <password>;<Day>, <hh:mm> **Optional**	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 69.
REGION=<region> **Optional**: If omitted, Dragon installs the default regions: All for English-language installations, or None for non-English installations.	Set the REGION to include with your installation. The available English-language regions are: • United States (UnitedStates or US) • Canada (Canada) • United Kingdom (UnitedKingdom or UK) • Australia/New Zealand (Australia or NewZealand) • Indian subcontinent (IndianSubcontinent or Indian) • Southeast Asia (SoutheastAsia or Asia) To install all English-language regions, set REGION=All. 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.

Options	Description
NMS_ADDRESS="<Production server URL>" (**NMC Installations only**)	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. If you are a Dragon Professional subscription customer, this server address is set to the subscription server by default.
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 sign-on, you must make additional configuration changes. For more information, see the *Nuance Management Center Server Installation and Configuration Guide*. 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 to install>"	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,... or REINSTALL=ALL	Set the REINSTALL property to a comma-delimited list of features to be reinstalled. 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

Options	Description
	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>`	Uninstalls the currently installed version of Dragon. You are 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"`	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>`	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 16.msi"
SERIALNUMBER=<serial_number>
DEFAULTSINI="C:\<full_path>\nsdefaults.ini"
INSTALLDIR="C:\Program Files\Nuance\NaturallySpeaking16"
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\NaturallySpeaking16\"
```

```
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 | lmo | 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 (ACO)—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 16.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>"	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>\	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:

Option	Description
	`setup.exe /a /s /v"EXTRACTFILES-` `S=c:\temp\msifiles"`
`/l<Windows Language Code>`	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 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

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 2022
    - Windows Server 2019
    - Windows Server 2016
    - Windows Server 2012 R2
    - Windows 10 and 11 Professional, Enterprise and Education

    > **Note**: Windows Server 2012 R and Windows Server 2016 support multiple client connections at the same time. Windows 10 and 11 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 and 11, 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 20.

When you have installed Dragon, see "Configuring Windows Server " on page 73.

Configuring Windows Server

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`.

2. 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 75.

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 downloaded installation files.

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.

Appendix D: Working with edit controls

Enabling Full Text Control in WPF edit controls

An administrator can enable Full Text Control in WPF edit controls.

In the installation folder, navigate to the Program folder and run

`ToggleFullTextControlWPF.exe`

You must have administrator privileges to run the .exe file.

After you run the .exe file, the .exe file displays one of the following messages:

- WPF Full Text Control ENABLED
- WPF Full Text Control DISABLED

Supporting Edit controls

You can use Full Text Control (formerly Select-And-Say) with the following edit controls:

Edit Control	Description	Supported
Edit (NotePad)	A Microsoft edit control	Yes
EmrTerClass (version 9.2.2 and higher)	A Ter edit control from GE	Yes
EpicTer78Class	An Epic edit control	Yes
EpicTer81Class	An Epic edit control	Yes
EpicTer79Class (EPIC 2012)	An EPIC 2012 edit control	Yes
Excel	A Microsoft edit control for Excel	Yes (up to 2016)
IE_S	A Microsoft edit control for Internet Explorer Server	Yes
INKTEXTBOX	A Microsoft edit control	Yes
INKEDIT	A Microsoft edit control	Yes
McKesson Paragon	McKesson Corporation	Yes
Meditor	A Meditech edit control	Yes
RichEdit20A	A Microsoft rich edit control	Yes
RichEdit20W	A Microsoft rich text box edit control	Yes
RichEdit50W (Word Pad)	A Microsoft rich edit control	Yes
RichEdit20WPT	A Microsoft Outlook edit control	Yes
RichTextWndClass	A Microsoft RichTextBox edit control	Yes

Edit Control	Description	Supported
TEdit	An edit control from Borland International	Yes
ThunderRT5TextBox	A Visual Basic edit control	Yes
ThunderRT6TextBox	A Visual Basic edit control	Yes
TMemo	An edit control from Borland International	Yes
TRichEdit	An edit control from Borland International	Yes
Ter13 Class	An edit control from Sub Systems, Inc.	Yes
Ter14 Class	An edit control from Sub Systems, Inc.	Yes
Ter15 Class	An edit control from Sub Systems, Inc.	Yes
Ter16 Class	An edit control from Sub Systems, Inc.	Yes
Ter17 Class	An edit control from Sub Systems, Inc.	Yes
Ter32 Class	An edit control from Sub Systems, Inc.	Yes
TERN16	A TE edit control from Sub Systems, Inc.	Yes
TERN17	An edit control from Sub Systems, Inc.	Yes
TERN21	A TE edit control from Sub Systems, Inc.	Yes
TX10 / Txedit10	A TX text control from Text Control GmbH	Yes
TX11 / TXedit11	A TX text control from Text Control GmbH	Yes
TX12 / TXedit12	A TX text control from Text Control GmbH	Yes
TX13 /TXedit13	A TX text control from Text Control GmbH	Yes
TX14 / TXedit14	A TX text control from Text Control GmbH	Yes
TX15 / TXedit15	A TX text control from Text Control GmbH	Yes
TX15.1 / TXedit15.1	A TX text control from Text Control GmbH	Yes
TX16/ TXedit16	A TX text control from Text Control GmbH	Yes
TX17 / TXedit17	A TX text control from Text Control GmbH	Yes
TX18 / TXedit18	A TX text control from Text Control GmbH	Yes
TX19 / TXedit19	A TX text control from Text Control GmbH	Yes
TX32 / TXedit32	A TX text control from Text Control GmbH	Yes
Word	A Microsoft Word edit control	Yes (up to 2016)
WPF	A Windows Presentation Framework edit control	Yes