



FUSION NARRATE - REQUIREMENTS

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Fusion Narrate® and SayIt™ from Dolby powered by nVoq™

Distributable to Resellers, Customers, and Prospects

FUSION NARRATE REQUIREMENTS

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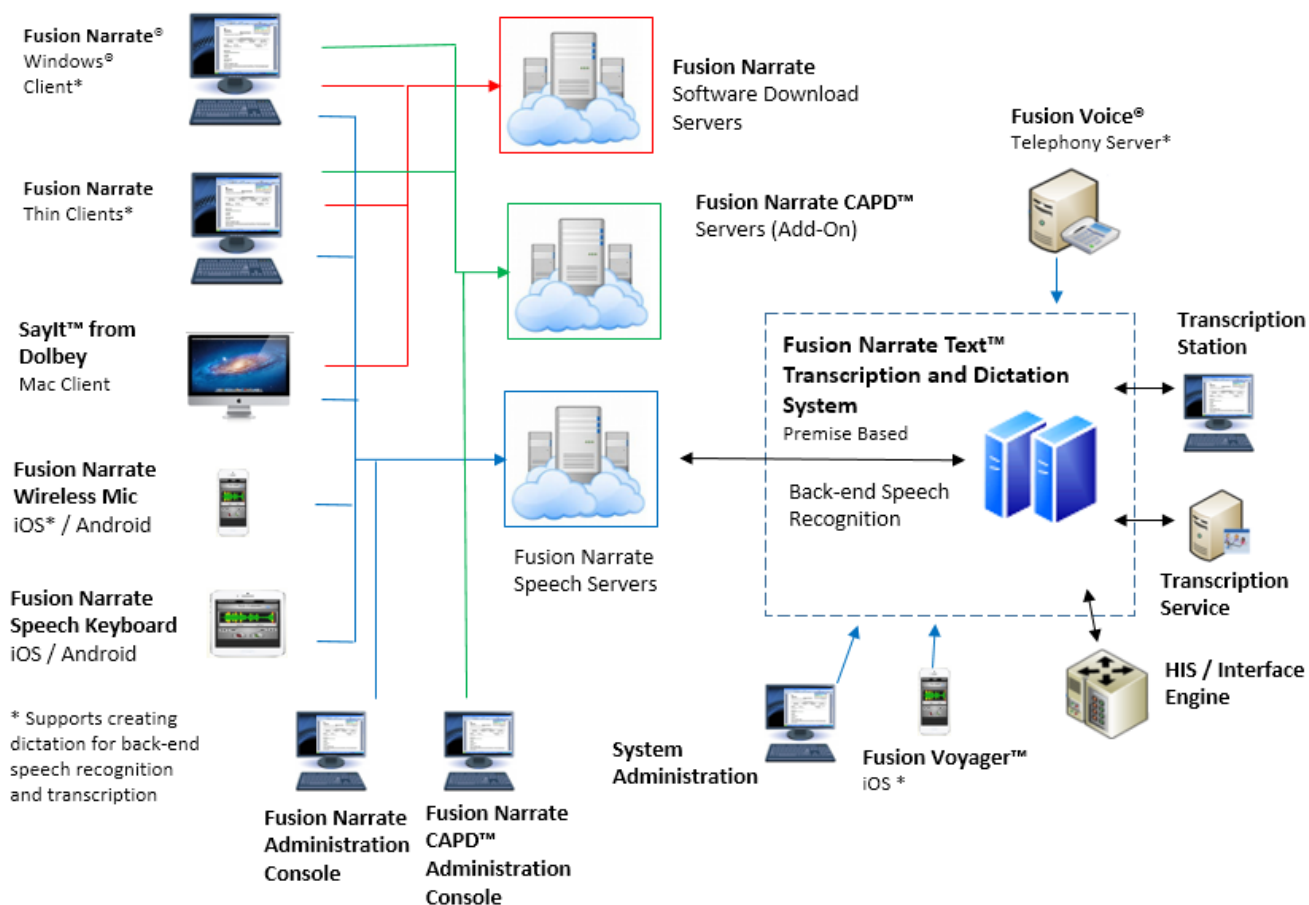
OVERVIEW

The Fusion Narrate application provides fast, accurate, cloud based front-end speech recognition for healthcare professionals.

The application can be integrated with the Fusion Narrate Text™ system, which is a full featured transcription, back-end speech recognition, and document workflow system for all medical specialties including radiology and pathology. This document is an add-on document to the *Fusion Text-Speech-Expert Software and Hardware Specifications* which contains requirements for the core Fusion Narrate Text client components. Additionally, if a Fusion Narrate Text system is part of the solution, the sales team can provide a custom server hardware layout to meet site-specific volume and feature requirements.

This application can also be integrated with the cloud based Fusion Narrate CAPD™ (Computer Assisted Physician Documentation) system. This system provides real-time clinical documentation improvement (CDI) feedback to the user while using front-end speech recognition. Note that this functionality is only available in the United States at this time.

The following provides a high-level overview of the components involved.



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COMPONENT REQUIREMENTS

The following provides more detailed descriptions and requirements for each of the client components outlined in the Overview diagram.

Fusion Narrate – Windows® Client

This is the client application that runs on Microsoft® Windows® workstations. It provides front-speech recognition, optional dictation mode functionality to send dictations through back-end speech to a Fusion Narrate Text system, and optional integration with the Fusion Narrate CAPD solution.

- Operating System:** Microsoft® Windows® 7, Microsoft® Windows® 8.1, Microsoft® Windows® 10 are supported. The English version of Windows® OS is required to support Listen Mode, Local Shortcuts, built-in commands during recording, and shortcuts during recording.
- Virtualization:** The Fusion Narrate client can also be virtualized on server operating systems: Windows® 2008, Windows® 2008 R2, Windows® 2012, Windows® 2012 R2, Windows® 2016, and Windows® 2019. Citrix Virtual Apps (XenApp®), Citrix Virtual Desktops (XenDesktop®), VMware Horizon®, and Microsoft Report Desktop Services are officially supported virtualization methods.
- Libraries:** Microsoft® .NET Framework version 4.5.2 or higher
- Processor and RAM:** 2 Core Processor and 4 GB of RAM (higher, if resource intensive applications will run with the Fusion Narrate client). The Fusion Narrate client utilizes minimal CPU resources. The Fusion Narrate client utilizes upwards of 300 MB of memory.
- Internet Connection:** 2 Mbs upload speed, 4 Mbs download speed, less than 30 Internet ping time is recommended for good performance. Dictation audio is compressed to 64 kbs prior to transfer to the Fusion Narrate Speech Server.
- Microphone:** SpeechMike, Olympus®, and PowerMic USB microphones. See help.fusionnarrate.com for a comprehensive listing. Other USB and Bluetooth microphones can be used but are generally not recommended since users must use a foot pedal, voice commands or the on screen user interface to control recording and voice shortcuts. Optionally, the Fusion Narrate Wireless Mic for iOS or Android can be used (see below). See help.fusionnarrate.com for additional detail.
- Foot Pedals:** VEC / Infinity: Wide Pedal, IN-USB-1, and IN-USB-2
Philips: ACC2310, ACC2320, ACC2330 (enhanced 4 pedals)
DAC FP-110-USB 3 (3 pedals) and DAC FP-110-USB 4 (4 pedals)
Other foot pedals may work if they are compatible with one of these foot pedals.
- Local Storage:** The Fusion Narrate download package is approximately 15 MB. During operation,

it may consume upwards to 65 MB. The Fusion Narrate client writes data, such as encrypted logs and cached configurations, to the logged in user's roaming profile (%AppData%\Fusion Narrate).

Access: This client is an XCOPY based installation and does not require local admin rights to download or run. An MSI install package is also available and is recommended for virtualization.

Google Chrome: To support Direct Editor mode with browser based applications running in the Google Chrome™ browser, the Fusion Narrate Extension must be installed.

Firewall: Outbound: **The following URLs must be allowed access (white listed) for HTTP/HTTPS traffic: *.fusionnarrate.com, *.nvoq.com.** Specifically:

Initial downloads and automatic updates (if enabled)

https://app.fusionnarrate.com (161.47.45.230): Port 443. Automatic failover site: https://appalt.fusionnarrate.com (146.20.185.250). Note: Versions prior to Fusion Narrate 2.2 use https://download.fusionnarrate.com and https://downloadalt.fusionnarrate.com.

Main application functionality including speech recognition

- https://healthcare.nvoq.com (216.46.184.251): Port 443. Disaster recovery site: Same domain, but different IP address (199.45.239.235).
- Canada: https://canada.nvoq.com (52.60.155.128): Port 443. Same IP address for disaster recovery.

Speech recognition utilizes HTML5 WebSockets for Fast Dictation to improve response time from the speech servers. Generally, this is allowed in standard firewall settings since it operates over port 443 as HTTPS. If this communication is not allowed, communication errors will occur when attempting to record. If this occurs, Fast Dictation cannot be used and must be disabled in the Administration Console so that standard HTTPS communication will be used instead.

Fusion Narrate CAPD processing (Optional add-on)

https://capd.fusionnarrate.com (161.47.45.231): Port 443. Automatic failover site: https://capdalt.fusionnarrate.com (146.20.185.249).

Online documentation sites

- http://help.fusionnarrate.com (34.232.9.143): Port 80.
- http://support.nvoq.com: Port 80.

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The IP addresses that are included above are subject to change and thus domain names should be used wherever possible.

Inbound: None. All connections are initiated from the client to the server.

Encryption: All data at rest and in transit is encrypted with AES 256 encryption. See the Fusion Narrate Security Brief for details.

Fusion Narrate – Thin Client

The Fusion Narrate application can be configured to run as a Citrix® XenApp® (Virtual App) application and can also run within Citrix® XenDesktop® (Virtual Desktop), VMWare Horizon® View, and Microsoft® Remote Desktop Services. If a microphone other than the Fusion Narrate Wireless Mic is used, a virtual channel component may be required on the client workstation unless full USB redirection is used. Specifications listed above for the Fusion Narrate - Windows® Client apply to the virtual server session.

Citrix® Application Interaction

If the Fusion Narrate client is installed on a workstation and it interacts with a Citrix® XenApp® based application, it is recommended to install the Fusion Narrate Virtual Direct channel components on the client and the Citrix® server for optimal integration with various text editors.

SayIt from Dolbey – Mac Client

This is a Java based client that has a different user interface than the Fusion Narrate - Windows® Client. Fusion Narrate speech profiles can be used on Macs using the SayIt from Dolbey client. It allows users who have Macs to use their speech license as well as custom vocabulary, substitutions and some shortcut command types.

Operating System: macOS® Sierra 10.13.1

Libraries: Java 8 (higher versions are not supported at this time)

Processor and RAM: 2 Core Processor and 4 GB of RAM (higher, if resource intensive applications will run with the Mac Client). The Fusion Narrate client utilizes upwards to 500 MB of memory.

Internet Connection: 2 Mbs upload speed, 4 Mbs download speed, less than 30 Internet ping time is recommended for good performance. Dictation audio is compressed to 64 kbs prior to transfer to the Fusion Narrate Speech Server.

Microphone: SpeechMike, Olympus®, and PowerMic USB microphones. See support.nvoq.com/audio-recommended-microphones for current listing. Optionally, the Fusion Narrate Wireless microphone for iOS or Android can be used (see below).

Local Storage: The SayIt from Dolbey download package is approximately 100 MB. During operation, it may consume upwards to 150 MB.

Firewall: Outbound: The following URLs must be allowed access (white listed) for HTTP/HTTPS traffic: *.nvoq.com. The Fusion Narrate client utilizes HTML5 WebSockets to improve response time from the speech servers. Generally, this is allowed in standard firewall settings since it operates over IP port 443.

Inbound: None. All connections are initiated from the client to the server.

NOTE: This client does not support integration with the Fusion Narrate Text transcription or Fusion Narrate CAPD systems.

NOTE: There is also a version of this client available for Windows® workstations; however, it does not have the full complement of features as that of the Fusion Narrate client.

Fusion Narrate – Wireless Mic

This is an app that runs on a mobile device. It can serve as a microphone for the Fusion Narrate and SayIt from Dolby clients. The mobile app communicates over the network with the client software via the Fusion Narrate Speech Server and is linked by username. The wireless microphone also supports an optional transcription assist mode, allowing a user to switch to dictation capture mode and send dictation to the Fusion Narrate Text transcription system.

iOS

Operating System: iOS 10.3 and higher

Devices: iPhone® models: 5 and higher

iPad® models: 3rd Generation and higher

iPad® Mini models: 2 and higher

Internet Connection: 1 Mbs upload speed, 1 Mbs download speed, less than 30 Internet ping time is recommended for good performance

Android

Internet Connection: 1 Mbs upload speed, 1 Mbs download speed, less than 30 Internet ping time is recommended for good performance

NOTE: The Android version of the wireless microphone is considered an ALPHA release and does not support all the features that the iOS version does. Specifically, it does not support sending dictations to transcription.

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Fusion Narrate – Speech Keyboard

This is an app that runs on an iOS mobile device. It is a HIPAA compliant custom keyboard allowing a user to use their Fusion Narrate speech profile with other applications. The user can press the microphone on the keyboard to activate the recording window, dictate, and then complete to automatically insert the recognized text at the input position. To utilize this app with a mobile EHR app, it may be necessary for the EHR vendor to make a software modification to allow the Fusion Narrate Speech Keyboard to be used. Dolbey can provide documentation on how to accommodate this upon request.

iOS

Operating System: iOS 12 and higher

Devices: iPhone® models: 6 and higher
iPad® models: 3rd Generation and higher
iPad® Mini models: 2 and higher

Internet Connection: 1 Mbs upload speed, 1 Mbs download speed, less than 30 Internet ping time

As an alternative, the SayIt Dictation Keyboard is an app offered by nVoq™ that runs on an Android mobile device.

Android

Operating System: Android 4.4 or higher

Internet Connection: 1 Mbs upload speed, 1 Mbs download speed, less than 30 Internet ping time

Fusion Narrate – System Administrators

Administrators can use a browser based application to manage the components of the Fusion Narrate Speech Servers. It is recommended that administrators have the requirements for the Fusion Narrate - Windows® Client, which offers additional management options. Administration tools are also required for managing the Fusion Narrate Text transcription system (if included). These requirements are outlined in the document titled *Fusion Text-Speech-Expert Software and Hardware Specifications*.

Fusion Voyager™

This is an iOS app for dictation capture for sending dictation to the Fusion Narrate Text transcription system. It provides many dictation capture features beyond that of the Fusion Narrate Wireless Mic. For example, it can provide the user a list of their scheduled patients. Please see the document titled *Fusion Voyager - Requirements* for detailed requirements.

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