

# Benefits of cloud speech



More efficiency and accuracy—less burnout and IT overhead.

## Positively impacting the radiologist's workflow and the bottom line

Fast, accurate speech recognition has always been a hallmark of PowerScribe. With the latest version of PowerScribe One, new levels of accuracy and performance are achieved with cloud-powered speech and AI-driven language processing.

PowerScribe One harnesses Nuance's award-winning cloud speech technology coupled with advanced radiology-specific language models. It includes AI-driven, radiology-specific enhancements that automate report creation, streamline operations, accelerate adoption, and support remote reporting.

Organizations can realize time and cost savings from increased radiologist efficiency and throughput, as well as easier deployment, reduced IT footprint and less system maintenance. These can translate into reduced radiologist and staff burnout, optimized radiology performance and revenue, and enhanced patient care.



**Enjoy "out of the gate" accuracy** due to improved, radiology-specific language understanding algorithms that deliver accurate recognition right from the start, without the need for voice training.



**Improve security and reliability** with a horizontally scalable, self-healing cloud architecture and redundant services that increase availability, minimize downtime, and streamline operations.



**Eliminate enrollment, profile creation, and management** with cloud-hosted acoustic models based on advanced neural networks. No microphone calibration, audio configuration, or profile corruption.



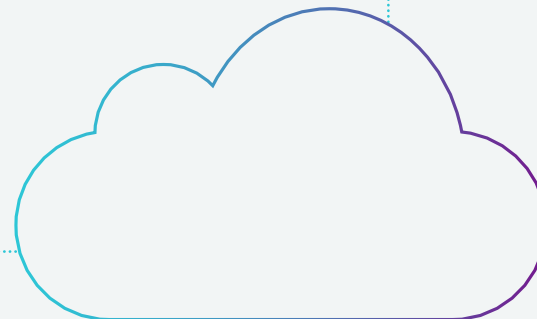
**Update language models and vocabulary easily** through rolling releases based on continuous learning and monitoring of words added by users.



**Increase flexibility and mobility** with no dependence on recording device. Move from machine to machine or device to device without the need for optimization or adaptation.



**Reduce total cost of ownership** through reduced infrastructure and less need for hands-on IT or admin staff engagement to deploy, train, troubleshoot, and maintain.



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## Cloud vs. on-premise speech processing—what's the difference?

### Benefits of next-generation cloud speech

Recognition occurs on secure, cloud-hosted servers



Speech profiles are in the cloud; users move, but profiles do not, supporting greater mobility and eliminating speech profile corruption.

- **Automatic updates** mean less work and less hassle. IT and radiology users always have access to the latest version and technology.
- **Home or remote use is easily accommodated.**
- **Hardware and IT expenses are reduced.** IT no longer maintains speech servers and deploys client workstations.
- **Nuance continually updates words and language models.** Advanced neural network processing in the cloud automatically adapts to speech patterns and corrections.
- **It is easy to switch input devices.** Effortlessly move between PowerMic, headset, or mobile device.
- **No profile training is required.** A radiologist can login and begin using it without reading scripts or performing personal customizations.

### Limitations of on-premise speech

Recognition occurs on your local network server(s)



Speech profiles are stored locally; they must be loaded onto each workstation and require additional maintenance.

- **Manual update process requires intervention.** IT must load and test software on every client; users must wait for system updates.
- **Home or remote use requires complex connectivity arrangements.**
- **Hardware and IT expenses are significant.** Requires FTE hours to develop deployment models and support profile optimization servers.
- **Updating vocabulary and language models is intermittent.** Language model improvements must wait for system-wide upgrades. Correction and adaptation processing takes time.
- **It is difficult to switch input devices.** Each switch requires time-consuming voice calibration and testing.
- **Requires profile creation and training.** Radiologists must read prepared scripts to configure the system for accurate recognition.

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[Nuance Communications](#) (Nuance) is a technology pioneer with market leadership in conversational AI and ambient intelligence. A full-service partner trusted by 77 percent of U.S. hospitals and 85 percent of the Fortune 100 companies worldwide, Nuance creates intuitive solutions that amplify people's ability to help others.