Philips SpeechExec Enterprise 4.0 revolutionizes your dictation workflow

Let the facts speak for themselves
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Philips SpeechExec Enterprise 4.0, the latest version of Philips’ new dictation management software solution, connects iPhone and BlackBerry users to the digital dictation workflow, incorporates advanced speech-recognition workflow capabilities, Citrix-ready status, and a refreshing new interface design. SpeechExec Enterprise 4.0 helps professionals get their ideas onto paper in faster, more conveniently, and inexpensively.
New key features of SpeechExec Enterprise 4.0

- Advanced speech-recognition workflow capabilities help maximize efficiency and productivity.
- Mobile flexibility with recording, editing, and sending dictation files directly from the iPhone or BlackBerry.
- An enhanced user interface incorporating Carousel view option, introduced as a result of extensive usability research, enhances ease of use.
- Automatic import of sound files recorded with a Digital Pocket Memo keeps manipulation time to a minimum.
- New configuration options enable users to adapt the toolbar to suit their needs; it also displays only those toolbar functions that are most commonly used.
- Redesigned recorder and player windows for both digital dictation and speech recognition provide a common pattern for intuitive use.
- Key usability features like filter and search, e-mail preview, and keyboard shortcuts simplify digital dictation and transcription.
- Quick and easy installation means short start-up times, low start-up costs, and low maintenance costs compared to integrated solutions.
- Citrix-ready status ensures compatibility, reliability, and peace of mind.
- Easy integration into most IT infrastructures and support of Citrix and Windows Terminal Server environments.

SpeechExec Enterprise 4.0 is a modern, flexible solution for a fast-moving world – and is crucial to ensuring that digital speech processing remains a cornerstone of your company’s strategy for greater efficiency.

Productivity on the go
Thanks to modern telecommunications and the new SpeechExec Enterprise software for the iPhone and BlackBerry, users can record dictations wherever they want and send them immediately to their office. Recording, editing, and sending dictation files from the smartphone offers mobile flexibility and reduces document turnaround times. Equipped with a Web server as well as the Philips Mobile Server, the recorder for the iPhone or BlackBerry is designed to fit perfectly into the Philips SpeechExec Enterprise suite. It uploads recordings onto the Web server using the fastest available connection (3G or wifi) and distributes recorded files to registered users via e-mail or directly to a network folder, making the dictation workflow more convenient than ever before.

Bridging the gap
What makes the Enterprise 4.0 even more appealing to efficiency-conscious executives is the fact that it can be easily linked with the latest versions of Nuance’s speech recognition software – Dragon NaturallySpeaking (Professional and Legal, versions 10.1 and 11). SpeechExec Enterprise 4.0 enables speech recognition control not only within SpeechExec, but it is also possible to control speech recognition with a SpeechMike in applications such as Microsoft Word and Microsoft Outlook, with SpeechExec Enterprise running in the background – closing the gap between document creation and the review process. Quick and easy installation, too, means shorter start-up times, lower start-up costs and lower maintenance costs, compared to integrated solutions.

The best of both worlds
“A recent scientific usability study conducted over a period of more than a year revealed that speech recognition users want an interface that’s simple and intuitive to use – they expect specific functions to be in specific places – and want it to be adaptable as to always suit their needs,” says Thomas Brauner, CEO and category leader at Philips Speech Processing. “And time is money – dictation users want their words transcribed as quickly as possible with minimal effort on their part. SpeechExec Enterprise 4.0 offers them the best of both worlds!”

Virtual reality
Enterprise 4.0 also possesses heightened flexibility, including system settings tailor-made to meet customer requirements – providing options for full installation, Terminal Server and Citrix environments, and scheduled workflow options. Being a part of the Citrix partner program, too, means Philips can quickly overcome the challenges of the fast-paced terminal server environment – the reason why this new solution was designed in the first place.

Sheer simplicity
The most striking change in SpeechExec Enterprise 4.0 is its refreshing new interface design. It’s equipped with new application and toolbar icons, and also has a completely modernized and simplified user interface that meets the standards of modern PC applications.

The Carousel view option, which enables users to see the most relevant information at a glance in a modern and convenient way, makes life easier for typists who want to get jobs done one after the other. Another usability-enhancing innovation is the display of the most commonly used toolbar functions only.
Digital dictation management software end-users want an interface that is simple to use and flexible so they can tailor it to meet their needs. At least that’s what a recent usability study by Philips revealed. The new SpeechExec Enterprise 4.0 incorporates these research findings, providing top-rate functionality with enhanced flexibility and usability, says Thomas Brauner, CEO and category leader at Philips Speech Processing.

Why has Philips created SpeechExec Enterprise 4.0?
A recent scientific study, which was conducted by an independent company on behalf of Philips for a period of more than a year, has enabled us to identify what today’s professionals are really looking for in a digital dictation management system. We wanted to enhance the already popular SpeechExec Enterprise software to incorporate these research findings.

Also, following the launch of SpeechExec Pro 7, SpeechExec Enterprise customers were already eager to find out when we would provide similar speech-recognition workflow capabilities for SpeechExec Enterprise. And that’s what we’ve done with this version – plus a lot more!

With the new recorder app for the iPhone and BlackBerry, you can record your dictations wherever you want and send them immediately to your office. Just imagine: You are sitting on an airplane, dictating, sending, and when you arrive you’ve already received your finished text document via e-mail.

We also introduced an enhanced user interface to make the application much more intuitive and designed it to look and feel much like Microsoft Office applications, so that new users can pick it up in no time.

And, SpeechExec Enterprise 4.0 is also now certified as Citrix-ready, providing enhanced compatibility and peace of mind to our Enterprise customers.

What are its key advantages over the previous versions?
The most striking change in SpeechExec Enterprise 4.0 is its refreshing new interface design. It’s equipped with new application icons, splash screens, and toolbar icons, and also has a completely modernized and simplified user interface that meets the standards of modern PC applications. All user-interface elements follow an intuitive pattern that makes it easy for new and also experienced users to quickly find their way through the application.

Meanwhile, the new Carousel view option, which enables users to see the most relevant information at a glance in a modern and convenient way, makes life easier for typists who want to get jobs done one after the other. Another innovation, developed as a result of the above-mentioned research, is the display of the most commonly used toolbar icons only. Widespread feedback revealed that displaying unused keys adversely affected ease of use.

How do smartphone users benefit from the new version?
The recorder apps for the iPhone and BlackBerry bring professional features to your smartphone. Take for example the fast and easy file editing via “insert”, “overwrite” and “append.” The easy-to-use touch-screen control makes efficient, convenient professional recording control a reality, while a priority setting means urgent jobs get processed first. You can also record and send dictation files at home, in the office, or on a plane – in fact anywhere you need to – to anywhere in the world. So if you’re looking for a way to create and process documents efficiently and maintain productivity while on the go, the Philips recorder for the iPhone and BlackBerry might be just the right thing for you!

You mentioned its support of speech recognition …
Yes. SpeechExec Enterprise 4.0 supports Dragon Professional and Legal 10.1 and 11, providing enhanced speech-recognition workflow and reliability. SpeechExec speeds up the document creation process – corrections can be made by a secretary within the speech recognition workflow and texts can be created more efficiently with speech recognition than as with self-typing.

Will SpeechExec Enterprise 4.0 users also save money?
Absolutely! Quick and easy installation equals shorter start-up times, lower start-up costs, and lower maintenance costs compared to integrated solutions, all of which put more money in our customers’ pockets!

Who is most likely to benefit from these revisions?
Not all our customers’ speech-recognition needs can be met by SpeechExec Pro or our standard SpeechExec offerings. Some need further enhanced efficiency, flexibility, and security. For these customers, we have created SpeechExec Enterprise 4.0.

SpeechExec Enterprise 4.0 has heightened security, including highest confidentiality login and central definition of encryption passwords. It also possesses enhanced flexibility, including system settings tailored to meet customer requirements – providing both options for full installation, Windows Terminal Server and Citrix environments, and scheduled workflow options. It is also very convenient to use – customizable user-interface options display only the information needed by the user and remote administration takes away the need for configuration by the user. At the same time, automatic workflow distributes the dictation files to the appropriate destinations.
Philips knows that no two organizations are alike. Therefore, its software builds on established core requirements, combining them with customizable features and settings to meet individual needs and requirements.

The SpeechExec Enterprise dictation workflow solution is the productivity tool for your entire organization. It adapts your dictation workflow to the needs of networked, fast-paced businesses.

Enhance your productivity

**Dictation workflow solution**
Smart speech-to-content solutions link authors, typists, managers, and administrators, facilitating communication, individual workflow settings, and organizational flexibility.

**Central administration**
Increase your organization’s productivity by remotely managing users, licenses, and system settings. The central administration function facilitates the configuration of work-list columns, filters, and job information.

**Automated workflow**
All work routing, definition of work groups, and linkage between author and transcriptionist are centrally defined within the system using an intuitive interface. Set up a schedule to determine which dictation files should be sent when and to whom. The files will then be reliably transferred based on the predefined settings.

**Workstation independent**
SpeechExec software solutions from Philips let you decide for yourself how you want to work. Workstation-independent password settings allow users to log on to any computer within the company network and access their settings and familiar working environment.

**Seamless integration**
The seamless integration of Philips dictation recording guarantees superb audio quality, high recognition accuracy, and easy hardware administration.

**Modular structure**
SpeechExec Enterprise features modules and functionalities that extend beyond simple recording and transcription. SpeechExec Enterprise offers optional modules to adapt the software to every professional dictation and transcription need.

**Location independent**
SpeechExec Enterprise enables you to transcend all geographical boundaries, securely connecting headquarters with their subsidiaries, branches with home offices, and mobile users with their typists. Record dictation files at home, in the office, on a plane, or anywhere you need to record and send voice files.

**Data security and backup**
File encryption, password protected login, and secure file transfer via SSL allow only authorized individuals to access your documents. The optional automatic backup function protects your data against accidental loss.

**Ready for the future**

**Speech recognition integration**
SpeechExec Enterprise connects seamlessly with Dragon NaturallySpeaking Professional speech recognition software to control the entire document creation workflow within one single application. The complete speech recognition process is managed within SpeechExec.

**Fast document creation**
Predefined templates allow you to record directly and speed up the document creation process, while roaming profiles make it possible to have workstation-independent speech recognition.

**Geared for Citrix and Windows Terminal Server**
Support for Citrix and Windows Terminal Server environments allow on-demand application delivery. SpeechExec can be virtualized, centralized, and managed in the data center and instantly delivered as a service to users anywhere. SpeechExec Enterprise is successfully certified as “Citrix ready”.

**Active Directory services**
SpeechExec supports Microsoft Active Directory services for central and easy administration of user and work groups.
**Basic modules and optional companion modules**

**SpeechExec Enterprise 4.0 foundation**

**Enterprise Dictate for authors**
This powerful dictation module processes voice files from digital portables (Digital Pocket Memo) as well as from desktop dictation devices (SpeechMikes). Recording functions, priority indexing, work routing, and work-type classifications can be customized to the author’s needs. Attaching documents to dictation files keeps data organized.

**Enterprise Transcribe for transcriptionists**
Flexible computer-based transcription software features high-efficiency access and management of digital voice files. Visual workflow management, including sort/filter options and job information during transcription (such as author, length, priority, etc.), assure more productive transcription and faster document turnaround.

**Enterprise Manager**
The central administration module for the system defines user settings, job information settings, and licenses, and supports Microsoft’s Active Directory services.

**Enterprise license server**
The license server manages licensing for the dictation and transcription modules, the Workflow Manager, the Statistics Module, and the Web Director.

**LAN Docking Station Administration Tool**
The administration tool can be used to manage and update several LAN docking stations remotely. The administration tool allows the network administrator to quickly review the status of up to 100 LAN docking stations connected to a network, and make configuration changes from a central user interface.

**Drivers for terminal server environments**
Drivers for Windows Terminal Servers and Citrix environments ensure smooth operation, even in overloaded networks.

**Silent setup information**
Allows the distribution of SpeechExec Enterprise software through a silent installation.

**Interface engine**
The so-called interface engine enables third-party applications to create new dictations or blank dictation templates with metadata, to use them later on a PC or a Digital Pocket Memo.

**Documentation**
Comprehensive documentation on installation, configuration, and usage for all modules.
Workflow Manager
Set up and automate a workflow for moving, copying, and deleting dictation files based on predefined rules and schedules and send automatic e-mail notifications.

Remote Device Manager
The Philips Remote Device Management Tool allows IT administrators to centrally configure all Philips Digital Pocket Memos and SpeechMikes. Administrators can manage and configure all recorders and programmable accessories, saving time and resources.

Statistics Module
The Statistic Module displays comprehensive statistics on dictation, transcription, job status, and workload. The module offers graphical output for better and clearer analysis. Results can be easily exported to Microsoft Excel, Microsoft Word, Adobe Acrobat, Crystal Reports, or displayed as RTF documents for further processing.

SpeechExec Mobile
Recording, editing, and submitting dictation files via an iPhone or Blackberry offers users the utmost flexibility and substantially reduces document turnaround times. Dictation files can be transmitted to the company’s dictation server via e-mail, FTPS or HTTPS. After transcription, the document can be e-mailed back to the smartphone.

Web Director
The Web Director is an online Web interface for the two-way Internet exchange of dictation files and associated documents. Users can upload dictation files and documents or make them accessible to others from any computer with Internet access.

DPM Connect
Smart footprint application for downloading dictation files from a Digital Pocket Memo (DPM) to client PCs.
Simplicity, productivity, and sustainability for the entire organization: Version 4.0 remains true to Philips SpeechExec Enterprise philosophy. Authors, typists, and administrators will benefit from the integration of the speech recognition software Dragon NaturallySpeaking with its completely revised and simplified user interface as well as improved support for Citrix environments.
Geared for speech recognition

Improved workflow management
After finishing a digital dictation on the PC, the user can specify how to continue processing the dictation. It can be saved and moved to the “Finished” folder for manual transcription as in earlier SpeechExec Enterprise versions. SpeechExec Enterprise 4.0 now offers an efficient alternative to send the dictation for offline recognition. Speech recognition is done while the user dictates one dictation after the other. This method is the most efficient way of working with speech recognition because it allows for quick, consecutive dictations. Transcriptionists can take care of time-consuming corrections directly, and don’t have to invest as much time and effort, since the text has already been transcribed and all they have to do is correct it.

What you see is what you get
Front-end speech recognition supports the “what you see is what you get” approach. Users see the text appear immediately on their screen, allowing them to have increased independency. They no longer need others to help transcribe dictations.

Individual speech recognition commands
Frequently used speech recognition commands (mark backwards, show correction dialog, etc.) are already preprogrammed to SpeechMike buttons and can be executed with a single click. On top of that, users can program almost any speech recognition command on the SpeechMike function keys (e.g. “next field”, “capitalize word”…). At the end of the dictation process, the text file can be automatically exported to a predefined path as a Microsoft Word document.

Easy download
SpeechExec Enterprise 4.0 now allows seamless speech recognition after DPM download. With no additional steps, work is made much more convenient.

Convenient e-mail dictation
Additionally, users can create e-mails with speech recognition within the front-end user interface. They do not need to switch to a different application to dictate e-mails. The front-end dictation user interface also includes frequently used vocabulary commands (e.g. train word, add word, etc.) which makes dictation intuitive.

Automatic synchronization of adaptation
Adaptation is essential for continuously improving the user’s speech recognition profile. SpeechExec supports both lexicon adaptation and acoustic adaptation. When adaptation is finished, the user profile is synchronized. This enhances the speech recognition profile without overwriting previous enhancements.

Time-saving templates
Templates help to quickly create documents with the correct style and format. They can hold standard texts, graphics, and style definitions, as well as text fields, to which a user can quickly jump. A template editor enables administrators to quickly create templates for the entire SpeechExec system.
Productivity on the go

The Philips recorder for the iPhone and BlackBerry turns a smartphone into a wireless digital dictation recorder. Users can record dictation files at home, in the office, on a plane, or anywhere they need and send the files immediately to their office. The recorder app for the iPhone and BlackBerry brings professional features to the smartphone. The easy-to-use touch-screen control makes efficient, convenient professional recording control a reality, while a priority setting means urgent jobs get processed first.

Increase personal productivity
Recording, editing, and sending dictation files from the smartphone offers mobile flexibility and reduces document turnaround times. The ability to send dictation files through wireless transfer decreases turnaround times and dramatically increases personal productivity.

Designed to fit seamlessly into the SpeechExec workflow
Equipped with a Web server as well as the Philips Mobile server, the recorder for the iPhone or BlackBerry is designed to fit perfectly into the Philips SpeechExec Enterprise suite. It uploads the recordings onto the Web server using the fastest available connection (3G or wifi) and distributes recorded files to registered users via e-mail or directly to a network folder, making the dictation workflow more convenient than ever before.

Priority setting
With the included priority setting option, urgent recordings can be prioritized. This guarantees that important dictation files are identified at a glance and get processed and delivered first.

Clear user interface
The clear user interface makes using the recorder fast and convenient. It guides the user through the dictation and upload process quick and intuitively. The display shows all recording functions and the main interface allows the user to record and navigate within recordings. Users can also make recordings priorities, define a keyword and/or a category, or simply edit the recording name.

Automatic encryption
To prevent unauthorized access to the user’s audio files, the highly secure Philips recorder for the iPhone and BlackBerry offers the capability to encrypt files. The file transfer is also encrypted via SSL technology.
Usability enhancements

Redesigned user interface
The new UI design does not only contain new application icons, splash screens, and toolbar icons, but has been completely modernized and simplified. The new user interface makes the applications much more intuitive and has been designed to look and feel much like Microsoft Office applications, in order to simplify and speed up start-up for new users.

Improved usability
With the goal of improving SpeechExec’s usability, we carried out scientific investigations on usability for more than a year. Driven by usability specialists, we gained new insights on how our speech-to-text solution is used by end-users, and where usability problems may occur. Based on the research findings, we were able not only to improve the SpeechExec user interface but also introduce some brand-new end-user-driven features and functions, to turn SpeechExec Enterprise 4.0 into an outstanding digital dictation workflow system.
Improved hardware support

Keeping on top with the Remote Device Manager
SpeechMike, Pocket Memo, foot control: The Remote Device Manager significantly reduces the administration effort required for dictation hardware. SpeechExec Enterprise 4.0 allows for the administration of ten devices; for larger organizations with several devices, the purchase of an appropriate license (LFH7470) is recommended.

The Remote Device Manager allows all devices to be accessed centrally. Devices are configured and updated automatically whenever the user places the device in the docking station or connects it to a computer. Settings can be defined for individual devices, groups of devices, or a specific device type; the relevant profile is stored centrally and is always accessible.

This includes passwords assigned by the IT department as well as different button functions and display settings. Even download options and microphone sensitivity can be managed centrally. The benefits for users are continually updated devices, latest firmware, reliable support, and bulletproof security when handling sensitive information and data; administrators benefit from maximum efficiency.

Citrix Ready
SpeechExec Enterprise 4.0 received Citrix-ready certification, providing enhanced compatibility and peace of mind to its Enterprise customers.

Support for latest Philips hardware
SpeechExec Enterprise 4.0 supports the latest Philips dictation hardware devices, such as the SpeechMike Air, the SpeechMike 3, and the complete digital Pocket Memo range.

Open for third-party devices
The further improved support for third-party devices includes automatic recognition and download of dictations without any need for configuration. In addition, users can control the SpeechExec recorder (e.g., recording and playback) via dictation functions when the device is connected.
SpeechExec Enterprise follows a simple philosophy. It supports every dictation scenario. This concept is the key to letting you work the way you want. It provides individual solutions for diverse requirements that are typical in an enterprise-wide workflow.

Centrally installed, deployed, and managed, the result is simple and efficient administration.
Upgrade from previous versions

1. Back up your system
   For security reasons, the system setting files (system default setting.xml, dictation property.xml, and supported audio formats.xml) should be backed up first. Statistics Module users should also back up the SpeechExec Enterprise database.

2. Upgrade the license server
   For version 1.1, 2.0, and 2.5 upgrades, the SpeechExec Enterprise License Server must be updated in order to use the new module license. This is also recommended for version 3.0 upgrades but not necessary.

3. Upgrade Enterprise Manager and workstation applications
   This step should be completed in one operation. Avoid having mixed environments with versions 1.1, 2.0, 2.5, 3.0, and 3.1.
   3.1 Upgrade SpeechExec Enterprise Manager
   • Upgrade Enterprise Manager on the Enterprise server.
   • The upgrade can be performed via the old installation. It is not necessary to uninstall earlier versions.
   • Use the new configuration options for system and user administration, if appropriate.

   3.2 Upgrade workstations
   • Upgrade workstations with the new Enterprise Dictate or Enterprise Transcribe.
   • The upgrade can be performed via the old installation. It is not necessary to uninstall earlier versions.
   • Use silent setup options where appropriate.

4. Upgrade Workflow Manager
   • Exit the Workflow Manager before the upgrade.
   • The upgrade can be performed via the old installation. It is not necessary to uninstall earlier versions.
   • Use silent setup options where appropriate.
Setup recommendations

SpeechExec uses a file-sharing architecture. All data processing takes place on the user’s workstation. The server stores files (dictation files and metadata) but doesn’t process any data.

SpeechExec clients perform three tasks:
• presentation logic (graphical user interface)
• business logic (workflow/data processing)
• data access logic (storage of data – reading/writing of files)

We recommend using the following instructions when setting up SpeechExec for large user environments:

1. Use individual folders for each author. The folder variables will support the creation of individual folders. Avoid using shared dictation folders.
2. If shared dictation folders must be used, follow the recommendations in the table below:
   - Keep the maximum number of dictation files per folder below 300.
   - Use the SpeechExec Workflow Manager’s “Maintain cache” function.

<table>
<thead>
<tr>
<th>Average author productivity (dictation files)</th>
<th>Average turnaround time (days)</th>
<th>Recommended number of authors per shared folder (&lt; 300 files/folder)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>0.5</td>
<td>120</td>
</tr>
<tr>
<td>5</td>
<td>1.0</td>
<td>60</td>
</tr>
<tr>
<td>10</td>
<td>0.5</td>
<td>40</td>
</tr>
<tr>
<td>10</td>
<td>1.0</td>
<td>20</td>
</tr>
<tr>
<td>20</td>
<td>0.5</td>
<td>30</td>
</tr>
<tr>
<td>20</td>
<td>1.0</td>
<td>15</td>
</tr>
<tr>
<td>50</td>
<td>0.5</td>
<td>12</td>
</tr>
<tr>
<td>50</td>
<td>1.0</td>
<td>6</td>
</tr>
</tbody>
</table>

3. If the number of authors (considering their productivity and the average turnaround time) exceeds these limits, the installation should be split into various shared folders.
4. Use the SpeechExec Workflow Manager’s “Maintain cache” function.

Software requirements

SpeechExec was tested on the following software:

<table>
<thead>
<tr>
<th>Operating system</th>
<th>Enterprise Dictate/Transcribe</th>
<th>Enterprise Manager</th>
<th>Enterprise License Server</th>
<th>Workflow Manager</th>
<th>Statistics Module</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Network protocol</th>
<th>TCP/IP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recommended minimum transfer rate for LAN</td>
<td>100 MB/s</td>
</tr>
</tbody>
</table>

Hardware requirements

(for standard installations)

<table>
<thead>
<tr>
<th>Software</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enterprise Dictate/Transcribe</td>
<td>1 GHz processor, 1 GB RAM (Windows XP) / 2 GB RAM (Windows Vista/7), 100 MB hard disc space per module, 850 MB (32 bit) / 2 GB (64 bit) hard disc space for .NET 4.0, screen resolution 1024 × 768</td>
</tr>
<tr>
<td>Enterprise Manager</td>
<td>1 GHz processor, 10 MB RAM, screen resolution 1024 × 768</td>
</tr>
<tr>
<td>Enterprise License Server</td>
<td>1 GHz processor, 10 MB RAM, screen resolution 1024 × 768</td>
</tr>
<tr>
<td>Workflow Manager</td>
<td>1 GHz processor, 10 MB RAM, screen resolution 1024 × 768</td>
</tr>
<tr>
<td>Statistics Module</td>
<td>1 GHz processor, 10 MB RAM, screen resolution 1024 × 768</td>
</tr>
<tr>
<td>Web Director</td>
<td>1 GHz processor, 10 MB RAM, screen resolution 1024 × 768</td>
</tr>
<tr>
<td>DPM Connect client application</td>
<td>1 GHz processor, 10 MB RAM, screen resolution 1024 × 768</td>
</tr>
<tr>
<td>DPM Connect administrator application</td>
<td>1 GHz processor, 10 MB RAM, screen resolution 1024 × 768</td>
</tr>
<tr>
<td>DPM Connect Licensing Gateway</td>
<td>1 GHz processor, 10 MB RAM, screen resolution 1024 × 768</td>
</tr>
</tbody>
</table>
SpeechExec was tested on the following servers:

**Windows**
- Windows Server 2003 SP3 ✓
- Windows Server 2008 ✓
- Windows Server 2008 R2 ✓

**Linux**
- Linux Samba-Server, Debian Distribution, Samba v. 3.0.0 Workaround required!
- Workaround contact Philips Speech Processing Support.
- Client Windows XP SP3, Windows Vista SP2, Windows 7

**Novell**
- Novell 5.1 SP8 ✓
- Novell 5.1 SPB ✓

**FTP Server**
- FileZilla ✓
- Serve-U ✓
- Games ✓

### Notes
- For all listed operating systems, we recommend that you apply the latest service-pack before installing any application.
- With Windows 2008, install the Desktop Experience feature to ensure trouble-free usage of SpeechExec.
- With Microsoft Windows 7, Windows Media Player must be installed.
- If the number of parallel connections to the server is higher than ten, an appropriate number of Windows CALs (Client Access Licenses) is required.

### E-mail configurations

SpeechExec was tested on the following configurations:

- **Configuration**
  - Microsoft Outlook Express 7 ✓
  - Microsoft Outlook 2003 ✓
  - Microsoft Outlook 2007 ✓
  - Lotus Notes 6.0.3 ✓
  - Lotus Notes 6.5.5 ✓
  - Lotus Notes 8.0 ✓
  - Novell GroupWise ✓

### VMware

The SpeechExec Enterprise's server components support VMware View Manager.

SpeechExec Enterprise's client applications (Enterprise Dictate and Enterprise Transcribe) are compatible to VMware View 4.6.

### Microsoft App-V

SpeechExec Enterprise is compatible to Microsoft Application Virtualization (App-V) 4.6.

### Citrix and Windows Terminal Server environments

#### Supported features of Philips dictation hardware

<table>
<thead>
<tr>
<th>Device</th>
<th>Citrix XenApp client platforms with Windows XP/Vista/7</th>
<th>Citrix XenApp client platforms with Linux</th>
<th>Citrix XenDesktop client platforms with Windows XP/Vista/7</th>
<th>WTS client platforms with Windows XP/Vista/7</th>
</tr>
</thead>
<tbody>
<tr>
<td>SpeechMike USB range</td>
<td>●</td>
<td>○</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>SpeechMike Air range</td>
<td>●</td>
<td>○</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Front control range (USB)</td>
<td>●</td>
<td>○</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Digitan Pocket Memo 3 range</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Philips low audio latency channel</td>
<td>●</td>
<td>○</td>
<td>●</td>
<td>●</td>
</tr>
</tbody>
</table>

- ● Full support
- ○ Device configuration not supported
- ○ Audio compression only with DSS QP

#### Network requirements

- **Required network bandwidth/Use**
  - Audio
  - SpeechMike keys
  - Screen + Keyboard
  - Total
  - .dss 14 14 100 128
  - .dss Pro 28 14 100 142
  - PCM wav 22kHz 352 14 100 466

#### Supported platforms

- **Operating systems**
  - Server
    - Windows Server 2003 (32/64 bit)
    - Windows Server 2008 (32/64 bit)
    - Windows Server 2008 R2 (64 bit)
  - Client
    - Microsoft Windows XP (32 bit), Vista (32/64 bit), 7 (32/64 bit)
    - Linux thin clients (see list below)
    - Linux distributions based on kernel 2.6.32 or higher
    - Windows XP Embedded thin client platforms

#### Terminal services

- **Supported**
  - Citrix Presentation Server 4.5
  - XenApp 5
  - XenApp 6
  - XenDesktop 5

- **Supported**
  - WTS platforms
    - RDP 6.x
    - RDP 7.x

#### Notes

Many variables exist which Philips cannot influence if you run SpeechExec Enterprise in a thin client environment. Therefore, Philips cannot guarantee the smooth operation of SpeechExec Enterprise with a thin client environment. Support, however, can be provided if information is provided to Philips at least three weeks in advance.
### Supported Linux-based clients (January 2011)

<table>
<thead>
<tr>
<th>Hardware vendor</th>
<th>Firmware vendor</th>
<th>Type / model</th>
<th>Operating system</th>
<th>Philips driver package / script</th>
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<td>Unicorn</td>
<td>FUTRO C100</td>
<td>Elux RL V2.6 Container</td>
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<td>Fat client (PC/Laptop)</td>
<td>Ubuntu 9.04</td>
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</tbody>
</table>

(*) Only devices marked with (*) are used in Philips internal tests! The compatibility with all other devices is assumed based on information from the firmware vendor.

### Using speech recognition in Citrix environments

Dragon provides some limited Citrix support which does not always match with SpeechExec Enterprise requirements for Citrix.

To set up and use speech recognition in Citrix environments, please read the corresponding documentation on Dragon NaturallySpeaking.

#### Supported client/server combinations

Together with the Philips G4 Citrix extensions, SpeechExec is prepared to support Dragon 11 Professional and Legal (version 10 is not supported) editions, Citrix XenApp client 11.x and Citrix MetaFrame Presentation Server 4.5. Windows Server 2003 (32/64 bit) is required as operating system.

#### Recommendations

Use speech recognition on full workstations whenever possible. In case customers need to run SpeechExec Enterprise with speech recognition support in Citrix environments, we recommend to contact the local Philips Speech Processing support who will provide a technical analysis and project-based rollout support (in case of a positive technical evaluation) as we cannot guarantee the functionality.

Provide load balancing for Citrix servers

Due to server capacity limitations, Nuance suggests that only four to six users should simultaneously run speech recognition on one physical Citrix server. This number may even have to be reduced to two to four, if several users are running adaptation programs at the same time.

#### Dragon licenses required

A Dragon license is required for every author. Nuance strictly states that one license may not be used by several users.

#### Use Citrix extensions from Philips for SpeechExec Enterprise only

Using Dragon speech recognition within the SpeechExec Enterprise workflow requires the installment of Citrix extensions from Philips. To use speech recognition with other programs, other Dragon Citrix extensions need to be installed.
Demo licenses
To order a demo license, please contact your dealer or local Philips Speech Processing Account Manager. We will provide you with a demo license key with which you can activate the licenses using the SpeechExec Enterprise License Manager.

Demo licenses are available for a period of 30 days and include the following licenses:
• 20 user licenses for simultaneous use (concurrent licenses) of Enterprise Dictate and Transcribe
• 1 Enterprise Manager license
• 1 Statistics Module license
• 1 Workflow Manager license
• 1 Web Director license

Important
• When you place your order, please provide us with the date of the planned installation. The demo license key can be activated in the SpeechExec Enterprise License Manager only on that date.
• The demo license has a term of 30 days from the date of installation. After this period has ended, either a full license must be purchased or the product must be uninstalled.

Full licenses
Full licenses are typically issued as part of a SpeechExec Enterprise project. For more information, please contact your dealer or local Philips Speech Processing Account Manager.

To issue a full license for your installation of SpeechExec Enterprise, a license request file is needed, which can be retrieved in the SpeechExec Enterprise License Manager as follows:
1. Open the SpeechExec Enterprise License Manager.
2. In the menu, click on License > Export license request file. A file with the extension .seereq is created.
3. After we have received the request file, we will send you a license file with which you can activate your purchased licenses in the SpeechExec Enterprise License Manager.

Test licenses
If the demo license period (30 days) is insufficient or if more than 20 user licenses are required for a test, test licenses may be issued. For more information, please contact your dealer or local Philips Speech Processing Account Manager.
Documentation

Detailed technical help and information for administrators is available on the installation DVD in the “Documentation” sub folder. The technical help contains information on the following topics:
• Supported operating systems
• Hardware requirements
• Standard installation
• Installation via command line and .msi package
• Known problems
• Remarks

Support for legacy versions

Our support policy for software products grants support of the current version (latest build only) and the last two predecessor versions (latest build only). This means that support for all SpeechExec Enterprise 1.x installations will be discontinued with the release of SpeechExec Enterprise 4.0. To ensure that your software is within the current support window, please use the upgrade option to get the latest version for all SpeechExec Enterprise 1.x installations.

Support structure

- Customer
  - Master Digital Center Enterprise (MDCE)
    - 2nd level support
      - Local Philips Speech Processing support
    - 3rd level support
      - Philips Speech Processing support in Vienna
  - Development