

Deployment and Configuration for VMware/Omnissa Environments

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Overview

In a VMware/Omnissa environment, the speech recognition app can be hosted on a VMware/Omnissa server or virtual desktop. The client end point can be a thick client running a Microsoft Windows operating system, a thin client running a Linux/Microsoft Windows Embedded operating system or a zero client with no operating system. Regardless of your virtualization technology and architecture, you must be able to deliver audio from the client end point to the hosted app; for more information, see [Audio channel deployment and configuration](#).

App deployment

Apps or desktops that are hosted in a virtualized environment are displayed as a bit map image via a receiver or remote desktop app.

This has the following implications:

- Your speech recognition app isn't installed on the client end point, but on the VMware/Omnissa server/virtual desktop.
- Your speech recognition app isn't installed where the microphone is plugged in.
- If your speech recognition app sends recognized text to a target app (for example, a clinical documentation program or word processor), the speech recognition app must be installed on the same server or virtual desktop image as the target app to be able to access the target app's text controls.

System configurations

The following system configurations are supported:

- Single hop configuration (described in this guide): Your speech recognition app is hosted on a VMware/Omnissa virtual desktop or server and streamed to the client end point (for example, a Microsoft Windows PC or thin client).
- Double hop configuration: Your speech recognition app is hosted on a Citrix Virtual App server (second hop) and delivered to a Citrix or VMware/Omnissa virtual desktop or Citrix Virtual App server (first hop), which is then streamed to the client end point (for example, a Microsoft Windows PC or thin client). For more information, see *Double Hop Configuration for Citrix Environments*.

Audio channel deployment and configuration

To deliver audio from the client end point to the hosted app, the following options are available:

- Recommended: [Install the Dragon VMware/Omnissa Client Audio Extension](#) on the client end point (for example, a Microsoft Windows PC). For more information, see [Nuance virtual extensions](#).
- Use the VMware/Omnissa native audio channel and [configure automatic device splitting](#) on the client end point (for example, zero clients or Linux thin clients).
- [Configure USB redirection](#) on client end point (for example, zero clients).

Note: We don't recommend using USB redirection because it depends on the state of the network and is therefore unreliable. In addition, some devices require a high network throughput even when they're idle. Audio devices work better with the native audio channel.

Note: In Windows Server 2019 and higher, apps must be given explicit access to hardware devices via Group Policy. To allow the speech recognition app to access the microphone device that's passed into the VDI session, create a Group Policy Object (GPO) for all users to set the registry key `HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\CapabilityAccessManager\ConsentStore\microphone` to `Allow`; this can then be applied to all servers.

Dragon virtual extensions

The Dragon VMware/Omnissa Client Audio Extension and Dragon PowerMic VMware/Omnissa Client Extension provide custom audio and microphone button channels for the following products:

- VMware/Omnissa Horizon
- Microsoft Windows and Windows Embedded operating systems
- The following speech recognition apps:
 - Dragon Medical One Desktop Application
 - Dragon Medical Direct
 - Dragon Case and Care
 - Apps based on Dragon Medical SpeechKit (.NET and COM editions)
 - Apps based on SpeechMagic SDK

For more information on hardware, software and network requirements, see: [Requirements](#).

Audio channels

High quality audio is required for accurate speech recognition. Regardless of the virtualization technology and architecture, you must be able to deliver audio from the client end point to the app hosted on the server.

Native audio channels can require between 150 kbps and 1 Mbps bandwidth between the client end point and the hosted app. The Dragon VMware/Omnissa Client Audio Extension reduces the bandwidth requirement to 19.2-27.8 kbps (depending on the sound format).

The corresponding improvements in app responsiveness and performance are critical to the user experience.

Microphone control channels

Microphone buttons, sliders and other controls must be routed separately to the speech recognition app.

To enable this for the Nuance PowerMic in a VMware/Omnissa Horizon environment, the [Dragon PowerMic VMware/Omnissa Client Extension](#) provides a custom channel for Nuance PowerMic button controls.

For third-party devices, [configure USB redirection](#) or [automatic device splitting](#). We recommend configuring device splitting on Linux thin clients; configure USB redirection only if the Linux thin client doesn't support device splitting.

Package contents

Dragon VMware/Omnissa Client Audio Extension

A virtual audio channel for VMware/Omnissa Horizon systems:

- Client component:
Dragon VMware Audio and Button Extensions\Client folder, Dragon VMware Client Audio Extension.exe

Dragon PowerMic VMware/Omnissa Client Extension

A virtual channel for Nuance PowerMic button controls in a VMware/Omnissa Horizon system:

- Client component:
Dragon VMware Audio and Button Extensions\Client folder, Dragon PowerMic VMware Client Extension.exe

Third-party device drivers

- Redistributable packages for Philips and Grundig devices. For more information, see: [Supported microphones](#).

Requirements

Important: For security reasons, make sure that VDI channel encryption is enabled between client end points and VDI servers or virtual desktops. Disabling encryption in a virtualized environment can lead to confidential data being exposed. Encryption is enabled by default.

VMware/Omnissa server

- VMware Horizon View Agent 7.13 or higher
- Omnissa Horizon Agent 2412 or higher
- One of the following operating systems:
 - Microsoft Windows Server 2016
 - Microsoft Windows Server 2019
 - Microsoft Windows Server 2022

Client end point

- Sound card or USB audio device
- One of the following operating systems:
 - Microsoft Windows 10
 - Microsoft Windows 11
- VMware Horizon View Client 5.5 or higher
- Omnissa Horizon Client 2412 or higher

Network requirements

- Minimum VMware/Omnissa client to VMware/Omnissa server bandwidth for audio data:
 - CELP: 19.2 kbps
 - Speex: 28 kbps
 - PCM 8 kHz: 128 kbps
 - PCM 16 kHz: 256 kbps
- Network latency must not exceed 50 ms.

Virtual channel allow list

VMware/Omnissa Horizon has a virtual channel security feature that, if enabled, requires you to add the Dragon virtual channels to the allow list. This feature is implemented on the Windows agent for both Blast and PCoIP.

To enable the feature, open the Registry Editor and set the following subkeys using the path to your local installation of Dragon Medical One:

[HKEY_LOCAL_MACHINE\SOFTWARE\Omnissa\Horizon\VirtualChannels] or HKLM\Software\VMware, Inc.\VMware VDM\VirtualChannels]

- "AllowVirtualChannels"="1"

To define the allowed channels and their associated apps, set the following subkeys using the path to your local installation of Dragon Medical One:

[HKEY_LOCAL_MACHINE\SOFTWARE\Omnissa\Horizon\VirtualChannels\DMO]

- "nuacom"="<local path>\sod.exe"
- "nuaplay"="<local path>\sod.exe"
- "nuarec"="<local path>\sod.exe"
- "PMRDSEx"="<local path>\sod.exe"
- "PspSbEx"="<local path>\sod.exe"
- "PSPCTR2"="<local path>\Philips.SpeechMike\PSPDispatcherS.exe | <path to sod>\sod.exe"
- "PSPCTRL"="<local path>\Philips.SpeechMike\PSPDispatcherS.exe | <path to sod>\sod.exe"
- "PspMix"="<local path>\SoD.exe"

Dragon audio channel installation

Install the Dragon VMware/Omnissa Client Audio Extension on the client end point (i.e. on the PC operating system, not the virtual desktop).

Proceed as follows:

1. Log on to the client end point as an administrator.
2. Make sure that no other user is logged on to the client end point and that the VMware/Omnissa session (`vmware-remotekms.exe/horizon-client.exe` process) isn't running during the installation of the Dragon VMware/Omnissa Client Audio Extension.
3. Open the Dragon VMware Audio and Button Extensions\Client folder and select Dragon VMware Client Audio Extension.exe.
4. Follow the installation wizard.
5. Make sure the device you want to use is selected as the default recording device on the client end point (Control Panel, **Sound** dialog box, **Recording** tab).

Remarks

- The extension doesn't need to be installed on the server/virtual desktop; the required server binaries are already included in the app folder.
- Make sure you uninstall the Dragon VMware/Omnissa Server & Virtual Desktop Audio Extension setup unless it's used by other products.
- Microphone buttons and other controls must be redirected separately from the client end point to the virtual desktop. For more information, see: [PowerMic control channel installation](#) and [Configuring automatic device splitting](#).

PowerMic control channel installation

The Dragon VMware/Omnissa Client Audio Extension configures audio redirection from the microphone to the virtual desktop or server. Microphone buttons and other controls must be redirected separately.

- To enable button controls for the Nuance PowerMic, install the Dragon PowerMic VMware/Omnissa Client Extension on the client end point.
- To enable button controls for third-party devices, install the corresponding device driver/redistributable package with VMware/Omnissa Horizon support or [configure automatic device splitting](#).

Proceed as follows:

1. Log on to the client end point as an administrator.
2. Open the Dragon VMware Audio and Button Extensions\Client folder and select Dragon PowerMic VMware Client Extension.exe.
3. Follow the installation wizard.

Remarks

- The extension doesn't need to be installed on the server; the required server binaries are already included in the app folder.

Silent setup

Installation

You can install the Dragon VMware/Omnissa Client Audio Extension and Dragon PowerMic VMware/Omnissa Client Extension via the command line. For example:

- Dragon VMware/Omnissa Client Audio Extension
`"<path>\Dragon VMware Client Audio Extension.exe" -i -q -l log.txt`
- Dragon PowerMic VMware/Omnissa Client Extension
`"<path>\Dragon PowerMic VMware Client Extension.exe" -i -q -l log.txt`

Remarks

- The `l` option enables logging. If you enable logging, you must specify a log file name (`log.txt` in these examples).
- Use the `-norestart` parameter to suppress the automatic restart of the computer if the Dragon extension setups require a restart.

Uninstalling

You can uninstall the Dragon VMware/Omnissa Client Audio Extension and Dragon PowerMic VMware/Omnissa Client Extension via the command line. For example:

- Dragon VMware/Omnissa Client Audio Extension
`"<path>\Dragon VMware Client Audio Extension.exe" /uninstall -i -q -l log.txt`
- Dragon PowerMic VMware/Omnissa Client Extension
`"<path>\Dragon PowerMic VMware Client Extension.exe" /uninstall -i -q -l log.txt`

Note: Use the `-norestart` parameter to suppress the automatic restart of the computer if the Dragon extension setups require a restart.

Supported microphones

	Audio	Controls
Nuance PowerMic II	yes	yes*
Nuance PowerMic II with barcode scanner	yes	yes*
Nuance PowerMic III	yes	yes*
Nuance PowerMic 4	yes	yes*
Philips SpeechMike Air	yes	yes**
Philips SpeechMike Premium	yes	yes**
Philips SpeechMike III	yes	yes**
Grundig Digta SonicMic II	yes	yes***
Grundig Digta SonicMic II (US edition)	yes	yes***
Grundig Digta SonicMic 3	yes	yes***

* To enable Nuance PowerMic controls, install the Dragon PowerMic VMware/Omnissa Client Extension.

** To enable button controls for these devices, install the corresponding redistributable packages.

*** To enable button controls for these devices, [configure automatic device splitting](#).

Third-party microphones

The Dragon 3rd party device drivers folder contains redistributable packages for Philips and Grundig devices.

Install the redistributables on the VMware/Omnissa virtual desktop where your app is hosted and on the client end point. For more information, see the documentation delivered with the redistributable package.

Note: The quality of third-party device drivers is the responsibility of the device vendor. Microsoft doesn't guarantee that third-party drivers are error free and suitable for your requirements. Redistributed drivers

might not be the most recent versions; contact your vendor for up-to-date drivers that support your speech recognition system.

Configuring automatic device splitting

To deliver audio via the VMware/Omnissa native channel and redirect button controls via device splitting, from the client end point to a VMware/Omnissa virtual desktop, do the following:

1. Start VMware/Omnissa Horizon Client and connect to the virtual desktop you want to use.
2. Install `vdm_agent.adm` in the Group Policy Editor of the virtual desktop; the file is located on the Connection Server at `C:\Program Files\VMware\VMware View\Server\extras\GroupPolicyFiles`. For more information on how to install ADM files, see: <https://technet.microsoft.com/en-us/library/cc739134.aspx>.
3. In the Group Policy Editor, browse for Computer Configuration/Administrative Templates/Classic Administrative Templates (ADM)/VMware View Agent Configuration/View USB Configuration and select **Include Vid/Pid Device**.
4. Enable this setting and enter the [device-specific string](#).
5. Browse for Computer Configuration/Administrative Templates/Classic Administrative Templates (ADM)/VMware View Agent Configuration/View USB Configuration/Client Downloadable only Settings and select **Split Vid/Pid Device**.
6. Enable this setting and enter the [device-specific string](#).
7. In the Device Manager of the virtual desktop, select **Sound, video and game controllers** and make sure that **VMware Virtual Audio (DevTap)** and **VMware Virtual Microphone** are enabled.
8. Disconnect from the virtual desktop and close VMware/Omnissa Horizon Client.
9. Connect the microphone/control device to the client end point.
10. Start VMware/Omnissa Horizon Client and connect to the virtual desktop.
11. In the VMware/Omnissa Horizon Client app, select **Settings > USB Devices** and select the audio device (for example, PowerMic 4). Select the settings icon next to the audio device, enable **Auto-connect at Startup** and **Auto-connect when Inserted**, then select **OK**.

Note: Only automatic device splitting is supported. As manual device splitting leads to audio issues when working with standby mode, it's not supported.

Device-specific strings

Enter strings for specific devices in the **Include Vid/Pid Device** and **Split Vid/Pid Device** settings.

Device	Device-specific strings
Grundig Digta SonicMic II	Include Vid/Pid Device: o:vid-15d8_pid-0025 Split Vid/Pid Device: o:vid-15d8_pid-0025 (exintf:00;exintf:01;exintf:02;exintf:04;exintf:05)
Grundig Digta SonicMic II (US edition)	Include Vid/Pid Device: o:vid-15d8_pid-0026 Split Vid/Pid Device: o:vid-15d8_pid-0026 (exintf:00;exintf:01;exintf:02;exintf:04;exintf:05)
Grundig Digta SonicMic 3	Include Vid/Pid Device: o:vid-15d8_pid-002a Split Vid/Pid Device: o:vid-15d8_pid-002a (exintf:00;exintf:01;exintf:02;exintf:04)
Nuance PowerMic II and III	Include Vid/Pid Device: o:vid-0554_pid-1001 Split Vid/Pid Device: o:vid-0554_pid-1001 (exintf:00;exintf:01;exintf:02)
Nuance PowerMic II with barcode scanner	Include Vid/Pid Device: o:vid-0554_pid-1002 Split Vid/Pid Device: o:vid-0554_pid-1002 (exintf:00;exintf:01;exintf:02)
Nuance PowerMic 4	Include Vid/Pid Device: o:vid-0554_pid-0064 Split Vid/Pid Device: o:vid-0554_pid-0064 (exintf:00;exintf:01;exintf:02)
Philips SpeechMike Premium	Include Vid/Pid Device: o:vid-0911_pid-0c1c Split Vid/Pid Device: o:vid-0911_pid-0c1c (exintf:00;exintf:01;exintf:02;exintf:03)
Philips SpeechMike III	Include Vid/Pid Device: o:vid-0911_pid-0c1c Split Vid/Pid Device: o:vid-0911_pid-0c1c (exintf:00;exintf:01;exintf:02;exintf:03)
Grundig Digta Foot Control 540 USB	Include Vid/Pid Device: o:vid-15d8_pid-0024

Device	Device-specific strings
Philips Foot Control FSW2320/00	Include Vid/Pid Device: o:vid-0911_pid-1844
Philips Foot Control FSW2330/00	Include Vid/Pid Device: o:vid-0911_pid-091a
VEC foot controls	Include Vid/Pid Device: o:vid-05f3_pid-00ff

To configure more than one device in one string, use a semicolon as a separator. For example, to configure a Nuance PowerMic II with barcode scanner and a Nuance PowerMic II, enter the following:

Include Vid/Pid Device: o:vid-0554_pid-1002;vid-0554_pid-1001

Split Vid/Pid Device: o:vid-0554_pid-1002(exintf:00;exintf:01;exintf:02);vid-0554_pid-1001(exintf:00;exintf:01;exintf:02)

Configuring USB redirection

To configure USB redirection from the client end point to a VMware/Omnissa virtual desktop, do the following:

1. Start VMware/Omnissa Horizon Client and connect to the virtual desktop you want to use.
2. Install `vdm_agent.adm` in the Group Policy Editor of the virtual desktop; the file is located on the Connection Server at `C:\Program Files\VMware\VMware View\Server\extras\GroupPolicyFiles`. For more information on how to install ADM files, see: <https://technet.microsoft.com/en-us/library/cc739134.aspx>.
3. In the Group Policy Editor, browse for Computer Configuration/Administrative Templates/Classic Administrative Templates (ADM)/VMware View Agent Configuration/View USB Configuration and select **Include Vid/Pid Device**.
4. Enable this setting and enter the [device-specific string](#).
5. Disconnect from the virtual desktop and close VMware/Omnissa Horizon Client.
6. Connect the microphone/control device to the client end point.
7. Start VMware/Omnissa Horizon Client and connect to the virtual desktop.
8. On the VMware/Omnissa Horizon Client menu bar, select **Connect USB Device > Autoconnect USB Devices** or connect individual devices from the list.

Troubleshooting audio

Common issues

In case of problems, check the following:

- The client component of the Dragon VMware/Omnissa Audio Extension is correctly installed. For more information, see: [Verifying the installation](#).
- USB redirection is disabled.

You can't use USB redirection together with the Dragon VMware/Omnissa Audio Extension. USB redirection removes the audio device from the client and adds a virtual audio device on the server. For more information, see: [Record/playback not working](#).

Note: You can use the VMware/Omnissa built-in virtual channel together with the Dragon VMware/Omnissa Audio Extension.

- The audio device you want to use is listed as the default audio device on the client end point, and this device is also available to the app hosted on the server. For more information, see: [Microphone unavailable](#).

Verifying the installation

In case of problems, do the following:

To verify that the Dragon VMware/Omnissa Client Audio Extension is correctly installed on the client end point, do the following:

1. On the client end point, open the Control Panel and select **Programs and Features**.
2. Check that **Dragon VMware/Omnissa Client Audio Extension** is listed.

Note: If the user was logged on to the client end point or the VMware/Omnissa session (vmware-remotekms.exe process) was running during the installation, the extension might be listed in **Programs and Features** but not work properly. For more information, see: [Microphone unavailable](#).

3. Check that the version number corresponds to your download and to the version number installed on the virtual desktop.
4. Go to C:\Windows\System32 (64-bit Windows) and check that the following files exist:
NuCaRDSRecorder.dll
NuCaRDSPayer.dll

NuCaRDSCommunication.dll
NuCaVDIClient.dll
Microsoft.CognitiveServices.Speech.core.dll
Microsoft.CognitiveServices.Speech.extension.audio.sys.dll
Microsoft.CognitiveServices.Speech.extension.codec.dll
Microsoft.CognitiveServices.Speech.extension.kws.dll
Microsoft.CognitiveServices.Speech.extension.kws.ort.dll
Microsoft.CognitiveServices.Speech.extension.lu.dll
nuance_highfa.table

5. Open the Registry Editor and do the following:

Browse for HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Terminal Server Client\Default\AddIns\nuarec and check the following:

The Name value points to C:\windows\System32\NuCaRDSRecorder.dll.

The PCoIP Enabled DWORD value is set to 1.

Browse for HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Terminal Server Client\Default\AddIns\nuaplay and check the following:

The Name value points to C:\windows\System32\NuCaRDSPlayer.dll.

The PCoIP Enabled DWORD value is set to 1.

Browse for HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Terminal Server Client\Default\AddIns\nuacom and check the following:

The Name value points to C:\windows\System32\NuCaRDSCommunication.dll.

The PCoIP Enabled DWORD value is set to 1.

VMware/Omnissa client doesn't start

- After you install the Dragon VMware/Omnissa Client Audio Extension, the VMware/Omnissa client doesn't start.

Make sure the Dragon VMware/Omnissa Audio Extension is correctly installed; for more information, see: [Verifying the installation](#).

Microphone unavailable

- The audio device isn't listed by the speech recognition app.

If a user was logged on to the client end point when you installed the Dragon VMware/Omnissa Client Audio Extension, do the following:

1. Make sure no user is logged on to the client end point and run Dragon VMware Client Audio Extension.exe again.

2. Manually add the registry keys to the user logged on to the client end point; for more information, see: [Verifying the installation](#).
- The audio device isn't available to the speech recognition app. Proceed as follows:
 1. Make sure the audio device is switched on and connected to the client end point.
 2. Make sure your system fulfills the [Requirements](#).
 3. Make sure the Dragon VMware/Omnissa Audio Extension is correctly installed; for more information, see: [Verifying the installation](#).
 - Your speech recognition app lists 'VMware Virtual Audio (DevTap)' or 'Remote Audio Device' as an audio device, or the device name contains 'Microphone Array' and 'VDI'.

The Dragon VMware/Omnissa Client Audio Extension isn't installed or it was incorrectly installed; for more information, see: [Verifying the installation](#).
 - Your speech recognition app lists an audio device from the VMware/Omnissa server, not the client end point.

The Dragon VMware/Omnissa Client Audio Extension isn't installed or it was incorrectly installed; for more information, see: [Verifying the installation](#).
 - Your speech recognition app lists an audio device, but not the one you want to use.

The Dragon VMware/Omnissa Client Audio Extension always uses the default device on the client end point. To verify/set the default audio device, do the following:

 1. Make sure the audio device is switched on and connected to the client end point.
 2. On the client end point, open the Control Panel and select **Sound**.
 3. Open the **Recording** tab and make sure the device you want to use is set as the default device.
 4. Open the **Playback** tab and make sure the device you want to use is set as the default device.

Record/playback not working

- Recording and playing back audio work at first, but a failure occurs during record or playback.

See: [App performance and stability issues](#).
- Recording and playing back audio don't work.

Proceed as follows:

1. Make sure the audio device is switched on and connected to the client end point.
2. Make sure your system fulfills the [Requirements](#).
3. Make sure the Dragon VMware/Omnissa Audio Extension is correctly installed; for more information, see: [Verifying the installation](#).

- Recording and playing back audio don't work, even though the audio device appears available to your speech recognition app.

Proceed as follows:

1. Make sure the audio device is switched on and connected to the client end point.
2. On the client end point, open the Control Panel and click **Sound**.
3. Open the **Recording** tab.

If the device isn't listed, you have USB redirection enabled and the device is redirected to the VMware/Omnissa server (bypassing the Dragon VMware/Omnissa Audio Extension). To use the device with the Dragon VMware/Omnissa Audio Extension, disable USB redirection.

- Recording doesn't start; a **Device in use** error is displayed.

The audio device is in use by another process.

Make sure that other processes aren't using the recording device when you start to record.

- Half-duplex devices (e.g. Philips SpeechMike with firmware lower than version 1.25): Recording doesn't start; a **Device in use** error is displayed.

Another app might be playing audio.

Upgrade the device firmware, and/or ensure that different devices are selected as default devices for recording and playing back audio.

- Nuance PowerMic: Recording or playing back audio doesn't work, but the LED on the device lights up when you try to record.

There is an audio problem; proceed as follows:

1. Make sure your system fulfills the [Requirements](#).
2. Make sure the Dragon VMware/Omnissa Audio Extension is correctly installed; for more information, see: [Verifying the installation](#).

- Recording and playing back audio work via the app GUI but not via the buttons on the device.

USB device splitting isn't correctly configured. See [Control devices](#).

App performance and stability issues

- Your speech recognition app reacts slowly in general.

This can be caused by low network bandwidth or high latency. Make sure that your network fulfills the [network requirements](#).

This can be caused by your server architecture. Microsoft Windows Server has a longer thread quantum than desktop PCs; this means that foreground apps aren't prioritized as much.

- Your speech recognition app launches slowly or reacts slowly to record/playback start/stop.

This can be caused by low network bandwidth or high latency. Make sure that your network fulfills the [network requirements](#).

- Your speech recognition app stops with an error during recording.

This can be caused by low network bandwidth or high latency. Make sure that your network fulfills the [network requirements](#).

This can be caused by latency peaks. Monitor your network performance over a long enough timeframe to detect latency peaks.

This can be caused by the audio device or the USB port on the client end point. Make sure you have the latest firmware installed. Do a longer recording on the client end point using a different app (e.g. Sound Recorder) to try to replicate the issue.

File-based recording: Make sure that the sound file is located on the server and not on a network share.

Contacting support

When you request support for VMware/Omnissa-related problems, provide the following information:

- The troubleshooting steps you've already carried out and your results.
- Detailed steps describing how to reproduce the problem.
- The version number of the Dragon VMware/Omnissa Client Audio Extension.
- The audio devices used.
- The type and operating system versions of thin clients used.
- The VMware/Omnissa Horizon version used on your system.
- The VMware/Omnissa client version used.
- The VMware/Omnissa server operating system.
- The guest operating system on the virtual machine.

Troubleshooting PowerMic controls

This section deals with problems related to the button controls on the Nuance PowerMic. For audio problems, see: [Troubleshooting audio](#).

Common issues

In case of problems, check the following:

- The Dragon PowerMic VMware/Omnissa Client Extension is correctly installed. For more information, see: [Verifying the installation](#).
- USB redirection is disabled:
You can't use USB redirection together with the Dragon PowerMic VMware/Omnissa Client Extension. USB redirection removes the audio device from the client and adds a virtual audio device on the server. For more information, see: [Troubleshooting audio](#).

Verifying the installation

To verify that the Dragon PowerMic VMware/Omnissa Client Extension is correctly installed on the client end point, do the following:

1. On the client end point, open the Control Panel and select **Programs and Features**.
2. Check that **Dragon PowerMic VMware/Omnissa Client Extension** is listed.
Note: If the VMware/Omnissa session (vmware-remotekms.exe process) was running during the installation of the Dragon PowerMic VMware/Omnissa Client Extension, the extension might not work properly.
3. Go to C:\Windows\System32 and check that the following files exist:
PowerMicClient.dll
pmlog.dll
PowerMicRDSCInt.dll
4. Go to C:\Program Files\Common Files\Nuance\PowerMic (64-bit dll files) and check that the following files exist:
PowerMicHid.dll
pmlog.dll
5. Open the Registry Editor.

6. Browse for HKEY_LOCAL_MACHINE\Software\ Microsoft\Terminal Server Client\Default\AddIns\PMVMWCL and check the following:

The Name value points to C:\windows\system32\PowerMicRDSCInt.dll.

The PCoIP Enabled DWORD value is set to 1.

Contacting support

The PowerMic SDK logging framework was changed; please contact support for instructions on how to enable logging for PowerMic SDK.

When you request support for VMware/Omnissa-related problems, please provide the following information:

- The troubleshooting steps you've already carried out and your results.
- Detailed steps describing how to reproduce the problem.
- The version number of the Dragon PowerMic VMware/Omnissa Client Extension.
- The type and operating system versions of thin clients used.
- The VMware/Omnissa Horizon version used on your system.
- The VMware/Omnissa client version used.
- The VMware/Omnissa server operating system.
- The guest operating system on the virtual machine.

Medical device disclaimer

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