

PHILIPS SPEECH EXTENSION DRIVERS

GENERATION 12.9

Build No. 4.3.431.29

Technical Documentation Advanced Configuration

For Certified MDC Partners and Support technicians



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SPEECH PROCESSING SOLUTIONS

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1. Important

1.1. Objective

This document describes the installation of the Philips Speech Extension Drivers for the usage with

- Microsoft Windows Terminal Services / Remote Desktop Services
- Citrix Virtual Apps and Desktops
- VMware Horizon View

1.2. Disclaimer and notices

Speech Processing Solutions has carried out extensive testing with most popular configurations. However, since computer add-ons and device drivers change very rapidly, we are unable to guarantee conflict-free operation.

2. Introduction

The Philips Speech drivers provide audio¹ and control support for Philips applications and integrations on Windows and Linux client platforms in remote desktop environments. Control support is provided for Philips SpeechMike III, SpeechMike Premium (Touch) and SpeechMike Premium Air, Foot Control, Digital Pocket Memo 8000, AirBridge, SpeechAir and SpeechOne series.

If you want to upgrade from a previous version, please follow this upgrade path to ensure trouble free operation:

- 1) Upgrade all Windows and Linux based thin clients to the new version
- 2) After you are done with the client upgrades, update the dictation software and extension drivers on the server(s) or virtual desktops to the new version

The new drivers are compatible with the previous version; however, new functions are only available if both, clients and server, have been updated to the latest version!

2.1. What's new?

G12.9 (4.3.431.29):

- Philips Device Connector uses this version of Philips Speech drivers in order to support Philips hardware integration in SpeechLive running in a remote session
- Faster and more reliable remote session connection status check to avoid delays in case no extensions are installed on the client
- Shutdown of the PSPDispatcher.exe if it's not in use anymore
- Support of the NComputing RX-HDX Citrix thin client (except for Philips PocketMemo)
- Support of Windows Virtual Desktop (if connected from a Windows client)

G12.8 (4.3.430.08):

- SpeechMike & Foot Control SDK:
 - Support of the new Revision2 SpeechMike3 and Revision2 SpeechMike Premium

G12.7 (4.2.420.06):

- SpeechMike & Foot Control SDK:
 - Support of the new AirBridge ACC4100
 - Support of the new combined wireless firmware file, which has been introduced for SpeechMike Premium Air and SpeechOne devices
 - DisplayState in SpMikeCtrl returns immediately after it has sent the command to the dispatcher, it doesn't wait for the response from the client, which makes DisplayState faster
- Support of Windows Server 2019
- Support of the latest versions of VDI platforms
 - Citrix Virtual Apps and Desktops 7 1808
 - VMware Horizon 7.7.0
- Support of HP ThinPro 7

G12.6.1 (4.1.410.31):

- Support of eLux RP 6.3 (64-bit)
- Linux drivers: SpeechOne bugfix
- Resolved issue in the SDKs

G12.6 (4.1.410.19):

¹ Philips audio support is only used by Philips SpeechExec range and Philips SpeechSDK integrations. Other applications (e.g. SpeechLive recorder/player via Philips Device Connector) rely on audio redirection handled by your virtualization platform technology (Citrix/WTS/VMWare)

- SpeechMike and Foot Control SDK:
 - \circ Support of the new SpeechOne 6000 series
 - \circ $\;$ Switch between button modes
 - o Reset to factory defaults
- DPM SDK:
 - Updates on the IDPMFileOperation interface:
 - Retrieving metadata is possible directly from the connected device
 - Copying files to the connected device is possible
 - Local functioning is possible
 - BeginCopyFileToDevice new method has been added
 - Updates on the IDPMDevice interface:
 - enum dpmSupportedFileOperations has been updated with a new value: dpmSupportedFileOperationsFileInfoAndCopyToDevice
 - Updates on the IDPMDeviceFileInfo interface:
 - FileInfoAvailable new property has been added
 - FileInfo new property has been added
 - All features are also supported on Linux based operating systems
- SpeechAir SDK:
- Support of the new SpeechAir 2000 series
 - Support of the latest versions of VDI platforms
 - Citrix XenApp / XenDesktop 7.18
 - VMware Horizon 7.5.0
- Support of Windows 10 IoT Enterprise (64-bit)

G12.5 (4.0.400.22):

• Resolved compatibility issue with SpeechMike firmware version <2.13

G12.5 (4.0.400.20):

- Support of the new SpeechMike Premium Air
- Support of Igel Linux 10 (64-bit)
- Extended 64-bit setup for the new native 64-bit version of VMware Horizon Client (v4.3.0 or higher)
- Support of
 - o Citrix XenApp / XenDesktop 7.14.1
 - VMware Horizon 7.1
- The DPM SDK provides a new interface **IDPMFileOperation** which allows to access the dictation files on the DPM without mapping the local drive to the target session (Windows clients only)

G12.4 (3.8.380.14):

- Update 03/2017:
 - Support of Windows Server 2016
 - Support of XenApp / XenDesktop 7.12
- Support of new Philips dictation hardware:
 - SpeechMike Premium Touch series
 - SpeechAir PSP1100 series
 - Foot Control ACC2300 series
- Support of Windows 10 (64-bit)
- Support of XenApp / XenDesktop 7.11
- Support of VMware Horizon RDSH:
 - VMware Server Extensions now can also be installed on Windows Server operating systems
 - o DPM/SpeechAir folder mapping is now also supported for VMware Horizon

- The content of all mobile dictation devices (DPM and SpeechAir) are now mounted to C:\SPSMOUNT\
- Support of eLux RP5
- RDP-support on eLux clients
- Support of 3rd party USB audio devices for playback
- Support of IGEL UD3-LX50 thin client
- As Dell/Wyse does not continue maintaining their OS "Wyse enhanced SUSE", a new G12.4 drivers addon cannot be provided for this platform

G12.3 (3.5.350.05):

- Support of new thin client operating systems:
 - HP ThinPro (Citrix)
 - Wyse enhanced SUSE (Citrix)
 - Stratodesk noTouch (Citrix/WTS)
- Support of the GetLastButtonEvent function introduced in HWSDK 3.5
- Philips extensions for VMware View can now be installed in parallel with SpeechMagic extensions

G12.2 (3.3.331.09):

- G5 backwards compatibility for the 32-bit SpMikeCtrl in Citrix XenApp environments
- Windows extensions for VMware Horizon View
- Support of the Remote Device Manager in remote environments (Windows + Linux clients)
- Support of RDP 8.1 (UDP and TCP)
- On virtual desktops all required registry entries are now set automatically during the installation process
- Barcode-Scan fix
- Support of the latest Linux client operating systems
 - Igel Universal Desktop (4.13.210 / 5.04.100)
 - Unicon eLux 4.6.0
 - Ubuntu 14.0.4
- Support of XenApp 7.6 and XenDesktop 7.6

G12.1.1 (3.3.330.12):

- Support of feature parameters in the administrative setup (via command line)
- Support of XenDesktop / XenApp 7.5
- Support of the latest thin client operating systems
 - o Igel Universal Desktop (4.13.210 / 5.03.190)
 - Unicon eLux 4.5.0
- Fixed G5 compatibility issue on x64 WTS clients

G12.1 (3.2.322.16):

- Support of Windows Server 2012R2
- Support of XenDesktop 7.1
- Compatibility of Windows client drivers G12.1 with server drivers G5 to allow an incremental upgrade from G5 to G12.1
- Server drivers can be installed on virtual desktop operating systems to allow connections to virtual machines
- Support of the barcode event mode feature
- Support of the Foot Control Configuration on Windows clients

2.2. Supported Windows, Citrix and VMware View platforms

With this version of the Philips Speech driver extensions for WTS/Citrix/VMware View you are able to have environments, which consist of the following components:

Windows Terminal Server	
Windows Server 2012R2	
Windows Server 2016	
Windows Server 2019	
Citative	

Citrix

XenApp 6.5 Virtual Apps and Desktops 7

VMware VMware Horizon 7

Virtual Desktops (Microsoft Remote Desktop / Citrix XenDesktop / VMware Horizon) Windows 10 (64-bit)

Clients

 Windows 10 (64-bit)

 Windows 10 IoT Enterprise (64-bit)

 Linux Clients based on Kernel 2.6.32 or higher

 Citrix ICA Client for Windows Desktop or Linux >=12.x

 VMware Horizon Client >=4.3.0

Note: non-professional versions of Microsoft Windows (e.g. Windows Home) are NOT supported!

2.3. Supported Linux platforms

The following devices and operating systems were used in Philips internal tests, the compatibility with other devices is assumed based on information from the firmware vendor, for an overview of compatible devices please visit the according firmware vendor websites.

Hardware	Operating System	Version	Driver Folder	Supported Terminal System	Website
HP					
HP t520/t430	HP ThinPro ¹⁾	7	\HP\	Citrix	http://www.hp.com
lgel					
UD3-LX50 UD5-LX50	lgel Universal Desktop (32-bit)	>5.13.110 ⁴⁾			
UD3-LX50	Igel Linux 10 (64-bit)	>10.06.190 4)	Fuil Integrated	Citrix/WIS	http://www.igel.com
UD3-LX50	lgel OS 11 (64-bit)	11.04.100			
Stratodesk					
HP t520	noTouch (64-bit)	3.2.10	Full integrated	Citrix/WTS	
NComputing RX-HDX	noTouch (ARM) ²⁾	3.2.10	Full integrated	Citrix	http://www.stratodesk.com
Ubuntu					
Desktop PC	Ubuntu (32/64-bit)	18.04	\Ubuntu\	Citrix	http://www.ubuntu.com
Unicon					
Nextreme-IV	eLux RP5 (32-bit)	5.7.2000	\Unicon\	Citrix/WTS	http://www.myelux.com
Nextreme-IV	eLux RP6 (64-bit)	6.6.0 ³⁾	\Unicon\	Citrix/WTS	http://www.myelux.com

The Linux drivers can be found in the sub folders of folder **\2_LinuxDrivers**

¹⁾Due to limitations of the HP ThinPro system, SpeechAir is not supported on HP ThinPro

²⁾ Digital PocketMemo is not supported

³⁾Only the 64-bit version of eLux RP6 is supported (>=6.5)

⁴⁾ Please contact Igel support for more information on the release plan

For more Information regarding thin clients contact your thin client supplier or service provider.

2.4. Supported hardware

Device Category	Device Type
Creach Air	PSP1100
SpeechAir	PSP2100
	DPM8000
Digital Pocket Memo 4	DPM8200
	DPM8500
SpeechOne	PSM6000
	SMP4000
Speecnivike Premium Air	SMP4010
	SMP3810
Speech Mike Promium Touch	SMP3800
Speechwike Fremium Touch	SMP3710
	SMP3700
	LFH3610
	LFH3600
SpeechMike Premium	LFH3520
	LFH3510
	LFH3500
	LFH3310
• · · · · · ·	LFH3300
SpeechMike 3	LFH3220
	LFH3210
	LFH3200
	ACC2330
	ACC2320
Foot Control	ACC2310
	LFH2330
	LFH2320
	LFH2310
AirBridge	ACC4100

2.5. Known issues

Note: Some known issues listed here are not directly related to Philips Device Connector (PDC) features (e.g. everything related to DPM/SpeechAir file transfer). However, if PDC is used for Philips hardware remote session support, it is likely that tools like SpeechLive Uploader Client are used as well for transferring dictations from a client-side connected DPM to the remote target where the SpeechLive website is running.

SpeechLive Uploader Client in remote sessions relies on DPM redirection provided by Philips Speech Drivers, so any DPM/SpeechAir related issue is also listed here. If you don't use SpeechLive Uploader Client and/or DPM/SpeechAir devices, you can ignore any related issue (applies to the whole document).

2.5.1. eLux: dictation files are not deleted from the DPM after download

On eLux systems it might happen, that dictation files remain on the DPM device, even if they are deleted. The background for this is that on eLux operating systems it takes up to 20 seconds until the files are deleted from a mass storage device. This behavior is eLux specific and beyond the control of our software and drivers.

Work around 1:

Wait about 20 seconds before unplugging the device after the delete command

Work around 2:

Define a hotkey to sync and unmount the plugged in mass storage devices manually after the delete command:

- 1) Open Scout Enterprise and go to Advanced settings of device / Advanced file entries
- 2) Add the following entries:

File: /setup/terminal.ini Section: Layout Key: UsbUnmountHotKey Value: <Alt><Mod4><Hyper>s

In this example, pressing **<Alt>+<Windows>+<s>** on the client would sync and unmount the plugged in mass storage devices, and as a consequence the dictation files would be successfully deleted

Advanced settings of device <futr< th=""><th>ro-5550> 🗙</th></futr<>	ro-5550> 🗙
Info Printer Screen Management VPN - Client	Mouse/Keyboard Files Environment Advanced file entries Rules Partitions
File Section	Key Value
/setup/terminal.ini Layout	UsbUnmountHotKey <alt><mod4><hype< td=""></hype<></mod4></alt>
/setup/terminal.ini 💌 Layout	UsbUnmountHotKe <alt><mod4><hype< td=""></hype<></mod4></alt>
Add <u>R</u> eplace	Delete
	OK Cancel <u>A</u> pply Help

2.5.2. Igel UD 5 RDP session

When opening an RDP session on an Igel UD 5.x client it might happen, that DPM related functions do not work properly. This problem is related to the Igel RDP client 2.1, to resolve this issue, open the Igel setup, go to **RDP – RDP Global – Options** and enable "RDP legacy mode".



2.5.3. VMware Horizon View

- Supported protocols are PCoIP and VMware Blast, however, due to a change in the PCoIP protocol, Digital Pocket Memo and SpeechAir are only supported with the VMware Blast protocol.
- SpeechMike/SpeechOne firmware update is currently not supported in a VMware Horizon View environment.
- Using a Digital Pocket Memo device as a USB microphone is currently not supported in a VMware Horizon View environment.
- VMware Horizon requires the built in DPM AutoPlay suppression to be disabled, which can be done with the following registry key, which has to be created on the target server/desktop:

The following registry value will turn off the feature for 32 bit DPMCtrl on 64 bit OS:

[HKEY_LOCAL_MACHINE\SOFTWARE\WOW6432Node\Philips Speech\DPMCtrl] "CancelAutoPlay"=dword:0000000

The value can also be created in the HKEY_CURRENT_USER (which has precedence) or in the 64 bit registry if necessary for a 64 bit integration. On 32 bit OS the **wow6432Node**\ should be omitted, of course.

2.5.4. USB 3.0 ports on Linux clients are not supported

As audio USB devices plugged into USB 3.0 ports on Linux clients can lead to malfunction, USB 3.0 ports are **not supported** on clients where Linux based operating systems are running. Please use USB 2.0 ports for your dictation devices.

2.5.5. Miscellaneous issues

- SpeechLive Uploader Client does not work properly in remote sessions with StratoDesk clients
- If connecting to a WTS/RDS target running as a Windows Server VM in Microsoft Azure, remote audio recording might not work as expected. A possible solution for this is to modify the RDP file provided by the Azure resource. Try removing the line "administrative session:i:1".
- Remote audio might not work out-of-the-box with eLux clients. Please contact eLux support or Speech Processing Solutions support for getting help resolving issues.

3. Installation

3.1. System architecture



3.2. Installation on Windows systems

3.2.1. Installation on the Windows server

Please remove all older Philips Speech Drivers before installing the new version.

Install the following components:

o \1_WindowsDrivers\PhilipsSpeechDriversSetup.exe

Note: The user must be allowed to start the **PSPDispatcher.exe** located in the Windows System folder (32-bit). The dispatcher starts up automatically with the dictation software.

3.2.2. Installation on the Windows client

Please remove all older Philips Speech Drivers before installing a new version.

1. If you want to use Citrix please make sure an ICA Client version 12.x or newer is installed BEFORE you install the Philips drivers.

Note: if you upgrade or reinstall the ICA Client, you have to reinstall the extension drivers on the client as some relevant registry settings get changed during the ICA Client upgrade/installation process.

 For Microsoft WTS/RDS or VMware on Windows 32-bit clients and Citrix on Windows 32- or 64-bit clients run \1_WindowsDrivers\PhilipsSpeechDriversSetup.exe with the according parameters.

For Microsoft WTS/RDS and VMware on Windows 64-bit clients run \1_WindowsDrivers**PhilipsSpeechDrivers64Setup.exe** with the according parameters.

Note: for the Philips dictation devices, USB redirection **must not** be enabled in the remote client software, all communication goes via the Philips channels!

Note: the version of the VMware Horizon Client has to be 4.3.0 or higher!

Note: If you want to use DPM or SpeechAir devices in a Microsoft WTS/RDS or VMware environment, please ensure that the local client drive "C" is available in the remote session, the corresponding settings can be found here:

Microsoft Remote Desktop: "Local Resources" – "More..."

Remote Desktop Connection	x
Remote Desktop Connection	
Local devices and resources	
Choose the devices and resources on this computer that you want to use in your remote session.	
 Drives (C:) OSDisk (D:) DVD RW Drive (E:) (H:) (J:) (Q:) Drives that I plug in later the other supported Plug and Play (PnP) devices 	4 III +
ок с	ancel

VMware Horizon Client: "Settings" – "Sharing"

C VMware Horizon Client	×
 √ Wware Blast √ Real-Time Audio-Video Sharing Geolocation Shortcuts 	Sharing Add Remove Folder/Drive C: C: Sharing C: Sharing C: Sharing C: Sharing Sh
	Share your local files Image: Share your local files Image: Share your local files Image: Share your local files in hosted applications OK Cancel

3.2.2.1. When to use the 32-bit and the 64-bit driver on client side?

In a Citrix environment, the 32-bit driver setup is required.

In a Microsoft WTS / Remote Desktop Services or VMware Horizon environment, the client operating system and the driver setup must be identical; it means that the 32-bit operating system requires a 32-bit setup, similarly, the 64-bit operating system requires a 64-bit setup.

3.3. Installation on Unicon eLux RP clients (Citrix/RDP)

The necessary packages can be found in the folder \2_LinuxDrivers\Unicon\ or on the eLux website www.myelux.com

Please remove all older Philips Speech Drivers before installing the new version.

- 1. Start the ELIAS tool (can be downloaded from <u>www.myelux.com</u>) and create a new image.
- 2. Import the Philips driver package.
- 3. Add the Philips driver package to the "Defined packages" area.
- 4. Right-click and activate the protocol you want to use, all additionally required packages (for example, the ICA client) will be added automatically:

<u>`</u> .		,				
F			U	Intitled - ELIA	S	
Image Co	ontainer Security \	/iew ?				
	1 🚳 🔋 🕅 👲	1				
_Image-					- Container -	
Name:					Name:	UC_RP5-1.0-1
Size:	627921 kB					eLux RP5 Conta
Files:	12396					
Path:	\\192.168.1.98\web\	thinclients\elux\2	0161122_		Path:	\\192.168.1.98\
Defined p	ackages:				Available p	ackages:
🕀 🖳 🕀	aseOS eLux RP, V5.4.2	-2			🔛 PCSC	Lite, V1.8.15-1
📄 🗄 🖽 G	(t 4 runtime libraries, V4.8	3.4.1-2			🔛 Perl sy	ystem, V5.14.2-2
🗄 🗄 🔁 🗡	(.Org XWindows system,	V7.7.93-11			🔛 Philips	s Speech Drivers, V
	ATE Desktop, V1.6.1.3	-4			🔛 Power	rTerm InterConnec
F 🛛 🖓 🖻	hilips Speech Drivers, V	12.4.10-1			Print E	Invironment (CUPs
	Libraries, V12.4.10-1	(🔛 Pulse	Audio, V8.0.0-4
	Philips Speech Driver Philips Speech Driver	s for Climx, V	Activate			S, V4
		S101 NDF, V	Check se	lected package		inGU
			Signature	and certificate in	nformation	(1.6.0
				==>	v	t, V5.
					🔛 Squid	Update Proxy, V3.
					SSH E	nvironment, V6.7.
					Syster	m libraries, VO.3-3 Print aliant 1/7 0.41

5. Upgrade the thin clients with the new image.

	Using device setup <	NextremeIV>	X
Drives Printe General Network	er Mouse/Keyboard Screen Security	Hardware Firmware Multime	Diagnostics dia Desktop
Output USB Analog (Jack) Digital (DP/HDMI)		Input USB Anaiog (Jack)	
Enable sound in XI System beep	Mute Mute		Mute Mute
	ОК	Cancel <u>A</u> pply	Help

In Scout Enterprise, ensure that Input USB devices are not muted:

3.4. Installation Ubuntu clients (Citrix)

- 1. Make sure an ICA Client (version 12.x or newer) is installed
- 2. The Ubuntu driver can be found in the folder \2_LinuxDrivers\Ubuntu\

Copy the .sh file to the Ubuntu client and install the Philips Extension Drivers for Citrix by entering:

bash PhilipsSpeechDriversLinuxSetupUbuntu.sh --default_hiddev_dir /dev/usb/ --default_joydev_dir /dev/input/ --ica_dir /opt/Citrix/ICAClient

in the terminal.

Please note: this script was prepared for Ubuntu 18.04, it might have problems on other versions.

3.5. Installation on Igel Universal Desktop clients (Citrix/RDP)

The Igel Universal Desktop operating system already has the Philips extension drivers implemented, they just have to be enabled in the configuration menu.

3.5.1. Citrix on Igel clients

Go to IGEL Setup / Citrix XenDesktop/Xenapp / HDX/ICA Global / Mapping / Device Support and checkmark "Philips speech channel for dictation".



3.5.2. Microsoft WTS / Remote Desktop Services on Igel clients

Go to IGEL Setup / RDP / RDP Global / Mapping / Device Support and checkmark "Enable Plugin Support" and "Philips speech channel for dictation".



3.6. Installation on HP ThinPro clients (Citrix)

- 1. Copy the files
 - PhilipsSpeechDrivers-<version>.sh
 - sh, joydev-3.8.13-hp_i386.deb
 - DPMMountd.conf

from the \2_LinuxDrivers\HP\ folder to a USB flash drive and plug it into the HP ThinPro client.

2. On the HP ThinPro device, click Control Panel and switch to Administrator Mode:



3. After that, navigate to Control panel - Advanced and open X Terminal:

	Q Certificates
	CPU Manager
	C1 DHCP Options
	HP Regulatory Docs
Administrator/User Mode Switch	SCEP Manager
Check For Updates	Serial Manager
Peripherals	Keyboard Shortcuts
📮 Setup	Task Manager
Management	Text Editor
👷 Advanced	X Terminal
© 🖉 🛈 🗲	

- 4. In the Terminal, enter **fsunlock** to allow modifying the files and folders on the ThinPro device: root@HPc8cbb8193c60;/writable/home/user# fsunlock
- Copy the drivers PhilipsSpeechDrivers-<version>.sh and joydev-3.8.13-hp_i386.deb from your USB flash drive to the /tmp directory (in the following example, the name of the USB flash drive is SanDiskCruzer_sdb1):

root@HPc8cbb8193c60:/writable/home/user# cp /media/SanDiskCruzer_sdb1/* /tmp

 Navigate to the /tmp folder and install the JOYDEV driver, which is required for the Philips Foot Control devices, by entering: dpkg -i joydev-3.8.13-hp_i386.deb

root@HPc8cbb8193c60:/tmp# dpkg -i joydev-3.8.13-hp_i386.deb

7. Install the Philips Extension Drivers for Citrix by entering: bash PhilipsSpeechDrivers-<version>.sh --default_hiddev_dir /dev/usb/ --default joydev dir /dev/input/ --ica dir /usr/lib/ICAClient



8. Copy DPMMountd.conf to the /etc/init/ directory and change its permission to 644:

root@HPc8cbb8193c60:~# cp /media/SanDiskCruzer_sdb1/DPMMountd.conf /etc/init/ root@HPc8cbb8193c60:~# chmod 644 /etc/init/DPMMountd.conf

9. Lock the file system again by entering **fslock**:

root@HPc8cbb8193c60:/tmp# fslock

 To enable the dictation file download functionality of the Philips Digital Pocket Memo or SpeechAir devices, the following steps are required: open the Connection Manager, navigate to the Citrix settings...

Connection Manager	*
XenApp 6.5 on Server 2008R2	inactive

11. ...select Local Resources on the left, checkmark Enable Static Drive Mapping (Legacy), checkmark all boxes in the line of letter P and enter /tmp/PhilipsDPM/ in case you are using a DPM, or map drive S: to /tmp/PhilipsSpeechAir/ for SpeechAir devices.

Minimum XEN Connection Gene	eral Setti	ngs Mar	nager				- • ×
🖵 Options	Local Dev	ices Redir	ection				
💰 Local Resources	Printers:		Printer Mapping	g Ou	SBR	Disable	
厚 Window	Webcam/#	Audio-Inpi	ut: 💿 HDX Compress	ion O U	SBR	Disable	
> Firewall			The USB devices	are not as	signed to	🗣 USB Mar	nager
Keyboard Shortcuts			the citrix protoco	r in the US	ь мапаgei.		
Bession	-Drive Map	ping/Redi	irection				
	USB Drive	8	Dynamic Mapping	j 🔿 USB	R	 Disable 	
	Enable Sta	atic Drive	Mapping (Legacy)	~			
		-					
	L						
	м						
	N						
	0						
	Р	2	/tmp/PhilipsDPM/	2	×		
	Q						UI
	R						
	s						
				ļ	Apply	Ok	Cancel
					-She		

Please note, that a factory reset on the ThinPro thin client removes all the drivers, so you would have to install them again!

3.7. Installation on Stratodesk noTouch clients (Citrix/RDP)

The Stratodesk noTouch operating system already has the Philips extension drivers implemented, they just have to be enabled in the configuration menu.

3.7.1. Citrix on Stratodesk noTouch clients

Go to System configuration / Connections / <your Citrix connection> / Citrix / Dictation device/SpeechMike driver and select "Philips G12":

System configuration	
printers in mapping	
Auto-connected printer (e.g. lp_par or lp_usb)	
Driver for auto-connect printer (e.g. HP LaserJe 2100)	ed
Map local serial/COM ports	on T
Map CDC/ACM as serial port	off IV
Smartcard login	no setting 🔽
Map local drives	on 🔽
Include system-defined drives in mapping	auto 🔽
Dynamic local drive mapping	on [v]
Dictation device/SpeechMike driv	ver Philips G12 🔽
Cherry eHealth card dri	iver off
Keyboard mapping file	
Extended Unicode Keyboard Support (EUK	KS) Use EUKS whenever possible ▼
Keyboard layout	
Transparent key pass- through	Server within Full Screen Sessions only ▼
Use local input method	on [v
Send Ctrl-V (Paste) on middle button	on (v

3.7.2. Microsoft WTS / Remote Desktop Services on Stratodesk noTouch clients

Go to System configuration / Connections / <your FreeRDP connection> / FreeRDP and...

1. Ensure that the version of the FreeRDP client is 1.2:

System configuration		X
LISC8CBB80491AD		192.168.1.143
Save changes	KreeRDP	
Management	Connections / Server 2012R2 / FreeRDP up Drives Parallel ports Serial ports Printers User-o	defined parameters
General Connections Input	FreeRDP version 1.2	
Display Audio	Clean FreeRDP home off	

2. Scroll down to Dictation device/SpeechMike driver and select "Philips":

new System configuration		×
encryption		
Certificate name		
	н <u> </u>	
Desired color depth	auto	
GDI rendering method	default 「▼	
Disable offscreen bitmaps	off 「▼	
Use bitmap cache for OSB	on 🔽	
Audio forwarding	on 🔽	
Microphone (audio in) forwarding	off	
Dictation device/SpeechMike driver	Philips 🔽	
RemoteFX	off 「▼	
RemoteFX mode	default 「▼	
Enable NSCodec support	off 🔽	
Multimedia forwarding	off 「▼	
XVideo adapter port number		
Drive mapping	on 「▼	
Include system-defined drives in mapping	on 「▼	
FabulaTech USB Redirection	off 「▼	
Local printer mapping	on [v]	•

4. General configuration on Linux clients

4.1. DPM and SpeechAir drive mapping on Citrix clients

In order to change the drive mapping of the Session you have to change the following parts:

- 1. Change the drive mapping in the ICA client
- 2. Adapt the **Settings.ini** according to the desired drive letter.

Ad1) the screenshot below shows the ICA client drive mapping configuration for DPM. For the SpeechAir device it would be required to map drive S: to **/tmp/PhilipsSpeechAir**/

	Enable/Read/Write
): <u> </u>	
3: 1	dor 🖉
:: [- 60° 🖉 -
): /tmp/PhilipsDPM/	r 60 🖉
:	- 60° 🖉
: [60° D
i: [4 00° 🖉
+ : []	

Ad2) Open the /etc/PhilipsSpeech/**Settings.ini** file with a text editor and change the "**DPM Server Path**" value according to your needs, for example:

DPM Server Path = $D: \setminus$

4.2. Foot Control button assignment on Linux clients

SpeechLive uses its own Foot control button assignment saved in a database on the SpeechLive server. SpeechLive receives raw button events from PDC and ignores button assignments saved on any client, regardless whether Linux or Windows.

5. Windows server / virtual desktop and client driver setup

5.1. General information

Philips Drivers have only one setup file which is common for Windows servers / virtual desktops and Windows clients.

If you want to install the Citrix client extensions, install the Citrix ICA client software first, otherwise the according option in the install wizard will not be available.

5.2. Installation of the server / virtual desktop drivers

5.2.1. Start

Run the extension driver setup according to the bit-version of the used HWSDK:

- 32-bit HWSDK integration: PhilipsSpeechDriversSetup.exe
- 64-bit HWSDK integration: PhilipsSpeechDrivers64Setup.exe

Click on Next Button

Philips Speech Drivers - InstallShield Wizard		
2	Welcome to the InstallShield Wizard for Philips Speech Drivers	
	The InstallShield(R) Wizard will install Philips Speech Drivers on your computer. To continue, click Next.	
	For remote session support, install Citrix dient before running this setup.	
	WARNING: This program is protected by copyright law and international treaties.	
	< <u>B</u> ack Next > Cancel	

5.2.2. Citrix selection

This chapter shows the Citrix server / virtual desktop installation settings.

📅 Philips Speech Drivers - InstallShield Wizard		
Custom Setup Select the program features you want installed.	E	
Click on an icon in the list below to change how a feature is in X MCI Audio Driver MCI Control Driver Client Extension for Citrix Server Extension for Citrix Client Extension for WTS Server Extension for WTS Client Extension for VMware Server Extension for VMware	Installed. Feature Description Install the Philips Speech server extension for Citrix (includes MCI Audio drivers) This feature requires 401KB on your hard drive.	
Install to: InstallShield	Change	
<u>H</u> elp <u>Space</u> < <u>B</u> ack	Next > Cancel	

5.2.3. Microsoft WTS / Remote Desktop Services selection

Choose the option shown in the screenshot below, if you're using Microsoft WTS / Remote Desktop Services.

B Philips Speech Drivers - InstallShield Wizard	×
Custom Setup Select the program features you want installed.	E
Click on an icon in the list below to change how a feature is in X • MCI Audio Driver MCI Control Driver Client Extension for Citrix X • Client Extension for Citrix Client Extension for WTS Server Extension for WTS Client Extension for VMware X • Client Extension for VMware Server Extension for VMware	Istalled. Feature Description Install the Philips Speech server extension for WTS (includes MCI Audio drivers) This feature requires 316KB on your hard drive.
InstallShield	Change
<u>H</u> elp <u>Space</u> < <u>B</u> ack	Next > Cancel

5.2.4. VMware Horizon selection

Choose the option shown in the screenshot below, if you're using VMware Horizon.

B Philips Speech Drivers - InstallShield Wizard	×
Custom Setup Select the program features you want installed.	E
Click on an icon in the list below to change how a feature is in X MCI Audio Driver MCI Control Driver Client Extension for Citrix Server Extension for Citrix Client Extension for WTS Server Extension for WTS Client Extension for VMware Server Extension for VMware	Istalled. Feature Description Install the Philips Speech server extension for VMware Horizon View (includes MCI Audio drivers) This feature requires 736KB on your hard drive.
Install to: InstallShield <u>H</u> elp <u>Space</u> < <u>B</u> ack	Change <u>N</u> ext > Cancel

5.2.5. Finish installation

Click on button Install

🛃 Philips	s Speech Drivers - InstallShield Wizard				
Ready The w	vizard is ready to begin installation.				
Click I	Click Install to begin the installation.				
If you exit th	u want to review or change any of your installation settings, dick Back. Click Cancel to he wizard.				
InstallShiel	ld < <u>B</u> ack Install Cancel				



InstallShield wizard has successfully installed the Philips Speech drivers - click **Finish**. If asked, please perform a restart for the configuration changes made by Philips Speech Drivers to take effect.

5.3. Client installation

If you want to use CITRIX please make sure that ICA Client version 12.x or newer is installed BEFORE you install the Philips drivers

5.3.1. Start

Start the PhilipsSpeechDrivers[x64]Setup.exe

Philips Speech Drivers - InstallShield Wizard			
2	Welcome to the InstallShield Wizard for Philips Speech Drivers		
	The InstallShield(R) Wizard will allow you to modify, repair, or remove Philips Speech Drivers. To continue, dick Next.		
	< Back Next > Cancel		

Click Next

5.3.2. Citrix

This chapter shows the CITRIX client installation settings.

B Philips Speech Drivers - InstallShield Wizard	×
Custom Setup Select the program features you want installed.	E
Click on an icon in the list below to change how a feature is in MCI Audio Driver MCI Control Driver Client Extension for Citrix X • Client Extension for Citrix X • Client Extension for WTS Server Extension for WTS Client Extension for WTS Client Extension for WMware Server Extension for VMware	stalled. Feature Description Install the Philips Speech client extension for Citrix (includes MCI Audio and Control drivers) This feature requires 972KB on your hard drive.
Install to:	Change
Help Space < Back	Next > Cancel

Select the options as displayed in the screenshot and click Next.

B Philips Speech Drivers - InstallShield Wizard	×	
Mounting parameters Please specify mounting parameters	く	
In Local path, please enter a valid folder on a local hard disk of this computer. Subfolders under this path will show the contents of the DPM or SpeechAir device. This path will be mapped to the server. Local Path		
C:\SPSMOUNT In Server path please, enter the path where the Local path is mapped by Citrix. If Drive remapping is enabled on the Citrix server then the two paths will be the same, otherwise the C: drive on the client will become V: on the server and D: will become U: and so on. Please, make sure to enter the appropriate values.		
Server Path	_	
C:\SPSMOUNT		
InstallShield		
< Back Next > Canc	el	

- For the "Local Path" please enter a valid folder on local hard disk of this computer this path will show the contents of the DPM or SpeechAir device.
- In the "Server Path" please enter the path where the DPM or SpeechAir Path appears in the Citrix Session.
- If drive remapping is enabled on the Citrix server then the two paths will be the same, otherwise the C: drive on the client will become the V: drive on the server, the D: will become U: and so on.

The Path settings can be changed later by reinstalling the Drivers.

Note:

Please be aware that the drive letter defined for "Server Path" gets released in case you remove the "DPM Mounter Service". If a real physical hard drive is defined for "Server Path" this would mean that you have to reallocate the drive letter for the relevant drive in the operating system.

5.3.3. Microsoft WTS / Remote Desktop Services

This chapter shows the Microsoft WTS / Remote Desktop Services client installation settings.

B Philips Speech Drivers - InstallShield Wizard	x
Custom Setup Select the program features you want installed.	E
Click on an icon in the list below to change how a feature is in X MCI Audio Driver MCI Control Driver Client Extension for Citrix Server Extension for Citrix Client Extension for WTS Server Extension for WTS Client Extension for WTS Client Extension for VMware Server Extension for VMware	stalled. Feature Description Install the Philips Speech dient extension for WTS (includes MCI Audio and Control drivers) This feature requires 1073KB on your hard drive.
Install to: InstallShield <u>H</u> elp <u>Space</u> < <u>B</u> ack	Change <u>N</u> ext > Cancel

Select the options as displayed in the screenshot and click Next.

Philips Speech Drivers - InstallShield Wizard	×
Mounting parameters Please specify mounting parameters	と
In Local path, please enter a valid folder on a local hard disk of this of under this path will show the contents of the DPM or SpeechAir devic mapped to the server.	omputer. Subfolders e. This path will be
InstallShield < <u>B</u> ack Nex	t > Cancel

For the Local Path please enter a valid folder on local hard disk of this computer – this path will show the contents of the DPM or SpeechAir device. The Local Path can be changed later by reinstalling the Drivers.

Note:

Drive Mapping only works for NTFS file systems. (e.g. FAT will fail)

5.3.4. VMware Horizon

This chapter shows the VMware Horizon client installation settings.

B Philips Speech Drivers - InstallShield Wizard	x
Custom Setup Select the program features you want installed.	E
Click on an icon in the list below to change how a feature is in MCI Audio Driver MCI Control Driver Client Extension for Citrix Server Extension for WTS Client Extension for WTS Server Extension for WTS Client Extension for VMware Server Extension for VMware	Installed. Feature Description Install the Philips Speech client extension for VMware Horizon View and the Philips Speech client extension for WTS (includes MCI Audio and Control drivers) This feature requires 1074KB on your hard drive.
Install to: InstallShield <u>H</u> elp <u>Space</u> < <u>B</u> ack	Change <u>N</u> ext > Cancel

Select the options as displayed in the screenshot and click Next.

Philips Speech Drivers - InstallShield Wizard	
Mounting parameters Please specify mounting parameters	
In Local path, please enter a valid folder on a local hard disk of this computer. Subfolders under this path will show the contents of the DPM or SpeechAir device. This path will be mapped to the server.	
Local Path	
C: \SPSMOUNT	
InstallShield < <u>B</u> ack <u>Next</u> > Cancel]

5.3.5. Finish installation

If all the settings were correct click Install

闄 Philips Speech D	rivers - InstallShield Wizard	×
Ready to Install The wizard is read	the Program dy to begin installation.	E
Click Install to be	gin the installation. view or change any of your installation setting	is, dick Back. Click Cancel to
exit the wizard.		
InstallShield	< <u>B</u> ack	Install Cancel
Installing Philips Speech Drive	eech Drivers	
The program features	s you selected are being installed.	
Please wai may take s	t while the InstallShield Wizard installs Philips Speech I everal minutes Philips Speech Drivers - InstallShield Wizard	Drivers. This
Status:	InstallShield	Wizard Completed
	The InstallShield Speech Drivers, O	Wizard has successfully installed Philips Click Finish to exit the wizard.
InstallShield		
	Show the	e Windows Installer log
		lack Finish Cancel

The InstallShield Wizard has successfully installed the Philips Speech Drivers on your computer. Click button FINISH to exit the wizard.

5.4. Command line installation – silent setup

It's possible to run the setup via command line:

PhilipsSpeechDrivers[64]Setup.exe [exe_parameters] /v"[msi_parameters]"

Commonly used exe_parameters:

Parameter	Description
/x	Uninstall mode
/s	Silent installation (no UI)
/v	Pass arguments to MSIExec (msi_parameters)

Commonly used msi_parameters:

Parameter	Description
/qn	Setup runs without user interaction
/l*v c:\setuplog.txt	Setup is logged to C:\setuplog.txt
CUSTOMPROPERTY	See a list of custom properties below

CUSTOMPROPERTY	Possible values
CHROMEEXTENSION	YES NO
NATIVEHOST	YES NO
MCIAUDIO	YES NO
MCICONTROL	YES NO
CITRIXCLIENTEXTENSION	YES NO
CITRIXSERVEREXTENSION	YES NO
WTSCLIENTEXTENSION	YES NO
WTSSERVEREXTENSION	YES NO
VMWARECLIENTEXTENSION	YES NO
VMWARESERVEREXTENSION	YES NO
DPM_LOCAL_PATH	local path of WTS and Citrix client extension
DPM_SERVER_PATH	server path of Citrix client extension

Notes

- Custom property names and values are case-sensitive
- Default values for custom properties depend on the type of operating system and the installed Citrix components.

On non-server operating systems, the following components are installed by default:

MCIAUDIO

MCICONTROL

WTSCLIENTEXTENSION

CITRIXCLIENTEXTENSION if Citrix Receiver/Workplace app is already installed

On server operating systems, the following components are installed by default:

CITRIXSERVEREXTENSION

WTSSERVEREXTENSION

VMWARESERVEREXTENSION

However, only one of these can be installed on the same computer. If running the setup using command line, one of these has to be set to YES and both others to NO.

• If the value of DPM_LOCAL_PATH or DPM_SERVER_PATH contains spaces, the path must be enclosed with properly escaped quotation marks.

Example: PhilipsSpeechDriversSetup.exe /v "DPM_LOCAL_PATH=\"C:\DPM path with space\""

5.4.1. Examples

Installing Philips client extension drivers without user interaction on a 32-bit Windows Client connecting to a WTS session:

PhilipsSpeechDriversSetup.exe /v"/qn CITRIXCLIENTEXTENSION=NO WTSCLIENTEXTENSION=YES VMWARECLIENTEXTENSION=NO"

Silently installing all components required for Philips Device Connector without user interaction on a WTS server (this is <u>the second method (PhilipsSpeechDriversSetup.exe)</u> mentioned in the Philips Device Connector Chrome extension section):

PhilipsSpeechDriversSetup.exe /s /v"/qn CHROMEEXTENSION=YES NATIVEHOST=YES CITRIXSERVEREXTENSION=NO WTSSERVEREXTENSION=YES VMWARESERVEREXTENSION=NO"

6. Trouble shooting Linux

The following components have to be installed on Linux clients.

Binary	Path	Control/ DPM	Audio	Mixer	Description
DPMMountd	bin	Х			DPMMounter daemon
libCtxHIDManagaerRemote.so	lib	Х			Control channel lib
libCtxMixerAlsa.so	lib			Х	Mixer lib
libCtxSbExtAlsa.so	lib		Х		Sound lib
libpspqp.so	syslib		Х		QP library
libpspusb.so	syslib	Х	Х	Х	Philips USB lib
VDPSPAUD.dll	ICA client		Х		Citix VirtualDriver for Audio
VDPSPHID.dll	ICA client	X			Citix VirtualDriver for Control
VDPSPMIX.dll	ICA client			Х	Citix VirtualDriver for Mixer
PSPDeviceTest	bin				libpspusb test tool
PSPDiag	bin				simplefied test tool for pspusblb
PSPDPMEventMonitor	bin				DPMMountd test tool

Path details:

bin:	standard bin directory (/usr/bin/)
lib:	same as LIB_DIR setting in module.ini, or in standard lib directory
syslib:	standard lib directory (/usr/lib/)
ICA client:	base directory of Citrix ICA client (/usr/lib/ICAClient)

Module.ini in ICA client dir/config/

[PSPHID]	Control	
LIB_DIR=/usr/lib/ICAClient	Control	directory where libCtxHIDManagerRemote.so is located
LIB_NAME=libCtxSpmike.so	Control	
DriverName = VDPSPHID.dll	Control	
[SpeechMikeAudio]	Audio	
DriverName = VDPSPAUD.dll	Audio	
LIB_DIR=/usr/lib/ICAClient	Audio	directory where libCtxSbExt.so is located
LIB_NAME=libCtxSbExtAlsa.so	Audio	
LIB_NAME=libCtxSbExt.so	Audio	
FORCE_PCM=0	Audio	Disable(1) or enable(0-default) ds2 codec. Use this on computers with slow CPU
[SpeechMikeMixer]	Mixer	
DriverName = VDPSPMIX.dll	Mixer	
LIB_DIR=/usr/lib/ICAClient	Mixer	directory where libCtxMixer.so is located
LIB_NAME=libCtxMixerAlsa.so	Mixer	

Logging:

Warning: Enabling logging can extremely slow down performance and can cause the system to hang.

ini file	path	module
pspusblb.ini	current working directory	libpspusblb
pspaud.ini	current working directory	citrix audio
psphid.ini	current working directory	citrix control
pspmix.ini	current working directory	citrix mixer

current working directory = the directory where you start the application from

Example (psphid.ini):

```
# Enable or Disable
Enable=y
# Filename for LOG file
FileName=./psphid.log
# enable/disable log function entries/exits
LogFunction=y
# enable/disable log variables
LogVariable=y
# enable/disable log comments
LogComment=y
# enable/disable log events
LogEvent=y
# enable/disable log errors
LogError=y
```

7. Trouble shooting Windows

PhilipsSpeechDriversSetup.exe installs a lot of components required for running any Philips software in remote sessions (SpeechExec, SpeechSDK integrations, HWSDK integrations, Remote Device Manager, PDC, SpeechLive Uploader Client).

However, not all of them are required for using SpeechLive in remote sessions (\rightarrow components required by PDC and SpeechLive Uploader Client).

The following sections only take components required for SpeechLive into consideration.

7.1. General

Regardless of which component is selected, PhilipsSpeechDriversSetup.exe will always install following library:

XPSPLOG.dll

Description: logs every other component installed by PhilipsSpeechDriversSetup.exe Path: system folder

7.2. Target side (Server/Virtual Desktop)

Regardless whether installing Server Extensions for Citrix, WTS/RDS or VMware, PhilipsSpeechDriversSetup.exe will always install following application:

PSPDispatcher.exe

Description: Control redirection server dispatcher Path: 32 bit system folder Logging: Configure in PSPDispatcher.ini located next to the exe Used by: PDC, Uploader Client

On the server / target machine the user must be allowed to start PSPDispatcher.exe. The dispatcher starts up automatically with the Philips software (e.g. PDC, Uploader Client).

When selecting "PDC Native host application", PhilipsSpeechDriversSetup.exe will install following application:

PSPNativeHost.exe

Description: Native host companion application without which PDC Chrome extension would not work. Communicates to PSPDispatcher.exe.

Path: [32 bit Program Files]\Philips Speech\Philips Device Connector\PDCNativeHost.exe Logging: Configure in PDCNativeHost.ini located next to the exe Used by: PDC

7.3. Client side

When selecting "Client Extension for Citrix", PhilipsSpeechDriversSetup.exe will install following library:

XPSPNCIn.dll

Description: Control redirection Citrix client Path: The folder of the Citrix client where the module.ini is located, usually C:\Program Files (x86)\Citrix\ICA Client Logging: Configure in XPSPNCIn.ini located next to the dll Used by: PDC, Uploader Client

Citrix client components are registered in: HKLM\SOFTWARE\WOW6432Node\Citrix\ICA Client\Engine\Configuration\Advanced\Modules\ICA 3.0\VirtualDriverEx

When selecting "Client Extension for WTS" or "Client Extension for VMware", PhilipsSpeechDriversSetup.exe will install following library:

PSPWTSControlClient.dll

Description: Control redirection WTS/VMware client Path: system folder Logging: Configure in PSPWTSControlClient.ini located next to the dll Used by: PDC, Uploader Client

Regardless of Citrix, WTS or VMware, PhilipsSpeechDriversSetup.exe installs following application:

DPMMounterSvc.exe

Description: Mounts DPM/SpeechAir drive to a specified local folder Path: C:\Program Files (x86)\Philips Speech\DPM Mounter Service\DPMMounterSvc.exe Logging: Configure in DPMMounterSvc.ini located next to the exe Used by: Uploader Client

8. Appendix

8.1. Installation Desktop Experience

If your server operating system is Windows Server 2008R2 or Server 2012R2, it is required to enable the Desktop Experience feature on your Windows server.

8.1.1. Microsoft Windows Server 2012R2

NOTE:

The Server needs to be restarted after the installation completes.

In the Server manger, select the 2nd option - Add roles and features

È.	Server Manager				
Server M	anager • Dashboard	、 (3 🚩 Manage Tools	View Help	
Dashboard	WELCOME TO SERVER MANAGER				
Local Server All Servers File and Storage Services	1 Config	gure this local server			
	QUICK START	roles and features			
	WHAT'S NEW 4 Crea	ite a server group			
	LEARN MORE			Hide	
	ROLES AND SERVER GROUPS Roles: 1 Server groups: 1 Servers total: 1				
	File and Storage Services 1	Local Server 1	All Servers	1	
	1 Manageability	1 Manageability	1 Manageability		
	Events	Events	Events		
	Performance RPA results	2 Services	2 Services		
	DEA TESUIS	BPA results	BPA results		
	24.10.2013 11:58	24.10.2013 11:58	24.10.2013 11:	58	

Click on Next



Select the first option [1] - Role-based or feature-based installation and click Next [2]



Click Next

Add Roles and Features Wizard						
Select destination	n server			DESTINATION SERVER nb101.testnet.at		
Before You Begin	Select a server or a virt	ual hard disk on which	to install roles and features.			
Installation Type	 Select a server from 	n the server pool				
Server Selection	O Select a virtual hard	d disk				
Server Roles	Server Pool					
Features						
Confirmation	Filter:					
Results	Name	IP Address	Operating System			
	nb101.testnet.at	192.168.1.194	Microsoft Windows Server 2012	Standard		
	1 Computer(s) found					
This page shows servers that are running Windows Server 2012, and that have been added by using the Add Servers command in Server Manager. Offline servers and newly-added servers from which data collection is still incomplete are not shown.						
		< Prev	vious Next > Ins	stall Cancel		

On the Features menu [1] select the – User Interfaces and Infrastructure (installed)[2] and activate Desktop Experience [3] and click finally click on Next [4]

B	Add Roles and Features Wizard	_ D X
Select features Before You Begin Installation Type Server Selection	Select one or more features to install on the selected server. Features Subsystem for UNIX-based Applications [Deprecation]	DESTINATION SERVER nb101.testnet.at Description Desktop Experience includes feature: of Window: 8, such ar
Server Roles Features Confirmation Results	 □ Telnet Client □ Telnet Server □ TFTP Client 2 ✓ Graphical Management Tools and Infrastructure ✓ Desktop Experience ✓ Server Graphical Shell (Installed) □ Windows Biometric Framework □ Windows Feedback Forwarder □ Windows Identity Foundation 3.5 □ Windows Internal Database 	Windows Media Player, desktop themes, and photo management. Desktop Experience does not enable any of the Windows 8 features; you must manually enable them.
	Windows Process Activation Service Windows Search Service V Previous Next :	Install Cancel

Required components will be installed - click Add Features

🚡 Add Roles and Features Wizard	x
Add features that are required for Desktop Experience?	
You cannot install Desktop Experience unless the following role services or features are also installed.	
Ink and Handwriting Services Media Foundation	
✓ Include management tools (if applicable) Add Features Cancel	

Finally click on Install

B	Add Roles and Features Wizard	_ 🗆 X
Confirm installatio	on selections P	ESTINATION SERVER nb101.testnet.at
Before You Begin	To install the following roles, role services, or features on selected server, click Install.	
Installation Type	Restart the destination server automatically if required	
Server Selection	Optional features (such as administration tools) might be displayed on this page beca	use they have
Server Roles	been selected automatically. If you do not want to install these optional features, click their check boxes.	Previous to clear
Features		
Confirmation	Ink and Handwriting Services	
Results	Media Foundation	
	User Interfaces and Infrastructure	
	Desktop Experience	
	Export configuration settings	
	Specify an alternate source path	
	< Previous Next > Install	Cancel

Installation is ready, click **Close** and **restart** your server.

b	Add Roles and Features Wizard
Installation progre	2SS DESTINATION SERVER nb101.testnet.at
Before You Begin	View installation progress
Installation Type	Feature installation
Server Roles	A restart is pending on nb101.testnet.at. You must restart the destination server to finish the installation.
Features Confirmation	Ink and Handwriting Services
Results	Media Foundation User Interfaces and Infrastructure Desktop Experience Image: Second S
	< Previous Next > Close Cancel

After Restart please check the Installation – go to Server Manager, open Local Server, scroll down to Roles and Features and you see the installed Desktop Experience Feature.

a		Server Manager				_ □	x
Server Ma	nager • I	Local Server	• 🕲	Manag	ge Tools	View H	elp
 Dashboard Local Server All Servers File and Storage Services 	Filter Server Name NB101	Counter Status CPU Alert Count Off -	Memory Aler	▼ t Count First -	Occurrence L	Sast Occurrent	^
	ROLES AND All roles and fea	FEATURES atures 19 total	∎ • ⋒	-		TASKS 💌	
	Server Name NB101 NB101 NB101 NB101 NB101 NB101 <	Name .NET Framework 3.5 Features Desktop Experience File And Storage Services Storage Services Server Graphical Shell Graphical Management Tools and III	Infrastructure	Type Feature Feature Role Role Service Feature Feature	Path .NET Framewor User Interfaces File And Storag User Interfaces User Interfaces	and Infra ge Service and Infra and Infra and Infra >	=
							~

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