# smartJeploy<sup>®</sup>

# How to Integrate SmartDeploy with Windows Deployment Services

SmartDeploy Revised: March 2017

Integrating custom Windows<sup>®</sup> Imaging Format (WIM) images into Windows<sup>®</sup> Deployment Services (WDS) lets you take advantage of the time and cost saving benefits of SmartDeploy<sup>®</sup> Enterprise while extending the functionality of WDS beyond its native capabilities. This step-by-step guide takes you through the process.

# Contents

Introducing SmartDeploy Enterprise	3
How Does SmartDeploy Work?	3
SmartDeploy and WDS: Simple Integration	3
How to Integrate SmartDeploy with WDS	4
Before You Begin	4
Create a Custom SmartPE WIM	6
Import the Boot Image to WDS Server	. 11
Install the Image	. 15
Boot to SmartPE and Deploy the Image	. 20
Verify with the Device Manager	. 30
Summary	31
More Information	31

# Introducing SmartDeploy Enterprise

Deploying an operating system can frequently become a time-consuming and frustrating task, leading many companies to look for ways to streamline and simplify their operating system deployment strategies.

Operating system deployment usually involves a disk imaging technology that lets you make a copy of a master hard disk drive and transfer this copy to your computers. This works well as long as the target hardware is the same as the master computer. However, in reality, a company's computers are often a mix of different makes and models. This means that the IT staff must create a separate master image for each hardware platform on the network, a time-consuming and labor-intensive endeavor.

SmartDeploy<sup>®</sup> Enterprise provides a real-world solution for this challenge by eliminating the need to create multiple master images for different computers. SmartDeploy helps make deployment of almost all versions of the Windows<sup>®</sup> operating system—including Windows 10—faster and easier.

#### How Does SmartDeploy Work?

SmartDeploy uses virtual machines (VMs) to create and maintain the operating system and applications that you want to deploy. The process of creating the master image for the hardware platform is similar to that used with other disk imaging software; however with SmartDeploy, you need to create only one master image no matter how many different computer brands or models you have on your network. A separate file called the Platform Pack contains the device drivers and other hardware-specific files, customizing the standard master image for each computer's unique properties. Platform Packs are available for many of the top computer manufacturers and models. You can also create custom Platform Packs with the Platform Manager. SmartDeploy merges these Platform Packs to the master image when deploying the operating system image.

SmartDeploy provides advantages over traditional disk imaging methods. Separating hardware and device drivers from the operating system and software means you have fewer images to maintain. Updates to any of the environments within the master image are transmitted as a small delta (or differencing) image file, which makes it possible for you to release updates frequently and easily at a low cost. You do not need a dedicated computer or dedicated infrastructure to run image management tasks. Additionally, SmartDeploy does not require a network to manage or deploy images; you can update remote users or offices without a network connection.

#### SmartDeploy and WDS: Simple Integration

Windows Deployment Services (WDS), the Microsoft technology for network-based installation of Windows operating systems, can be used to reimage computers that are connected to the Local Area Network (LAN). WDS lets you inject drivers from a repository at image deployement time so you can keep one master image and still deploy to a variety of hardware; however, the driver injecting feature cannot be used for standalone (offline) DVD-based imaging.

SmartDeploy fits seamlessly into WDS environments. It lets you use customized Windows Imaging Format (WIM) images with WDS, extending the capabilities of your WDS implementation beyond basic installation images to help streamline, simplify, and accelerate Windows deployment. With SmartDeploy, you consolidate all client and server images onto a single DVD or USB, so you can deploy to any platform, even without a LAN.

## How to Integrate SmartDeploy with WDS

The following sections step you through the process of integrating SmartDeploy with WDS. You are first guided through the process of creating a custom SmartDeploy Preinstallation Environment (SmartPE) ISO image, which can be used as a WDS boot image. The SmartDeploy Deploy Wizard supports the deployment of WDS install images. You can boot your target computer via Preboot Execution Environment (PXE) to the SmartPE environment, and then start the Deploy Wizard and map a drive to **\\[wdsserver]\RemInst**.

#### **Before You Begin**

To integrate SmartDeploy with WDS, you must have SmartDeploy installed on your computer. Reference the SmartDeploy Enterprise User's Guide to confirm that your environment meets the hardware requirements and that you have a supported host operating system, supported guest operating systems, and supported virtual environment. You can download SmartDeploy from the SmartDeploy website. If you are evaluating SmartDeploy, your free 15-day trial will begin when you install the software. For customers, you can license your software using the License Wizard; see Licensing and Activation in the SmartDeploy Enterprise User's Guide for more information.

#### **Capture Master Image**

You must also capture the master image with the Capture Wizard. Detailed instructions can be found in the SmartDeploy Enterprise User's Guide.

**Note**: If your image has multiple volumes, you must first enable your image for WDS. Also note that WDS requires that multicast images contain only valid Windows volumes.

- 1. Start the Capture Wizard by selecting **2. Capture** from the **Activities** tab in the SmartDeploy Console.
- 2. On the **Welcome to the Capture Wizard** page, click **Next**.
- 3. On the **Virtual Hard Disk** page, click **Browse**, and navigate to the folder containing the virtual hard disk you want to capture.
- 4. Select the virtual hard disk, click **Open**, and then click **Next**.

/irtual disk:						
C:\SmartDeplo	y\R <mark>eference</mark> Ma	chines\Wind	dows 10 x64	Windows 10	): Bro	wse

- 5. On the **Select Disks** page, select For use with Windows Deployment Services (WDS) multicast. This removes all volumes except for the BOOT volume and enables the image for WDS.
- 6. At the warning message, click **OK**.

Capture Wizard	
	yment Services (WDS) requires images valid Windows volumes.
Processing this i for the BOOT vo	mage will remove all volumes except lume.
	OK Cancel

7. Observe that only valid boot volumes are now selected. Click **Next**.

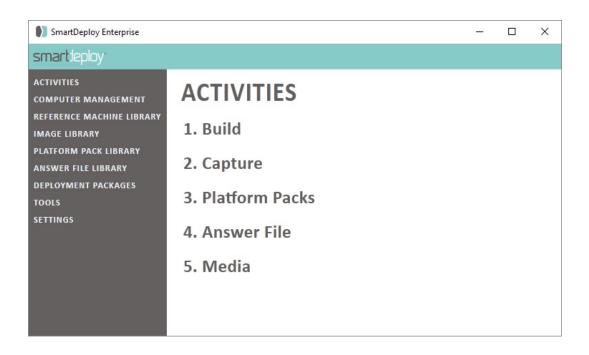
Volume	Total Size	Used Space
🗌 🥪 System Reserved (Unassigned)	350 MB	244 MB
🖌 攀 Local Disk (C:)	59.7 GB	12.2 GB

8. You can now use the **Capture Wizard** to capture the master image as described in the SmartDeploy Enterprise User's Guide. For this example, the master image is Windows 10.wim.

#### Create a Custom SmartPE WIM

To integrate SmartDeploy with WDS, begin by using the Media Wizard to create a SmartPE WIM, a customized environment that captures or deploys images to target computers.

1. Launch the Media Wizard by selecting **5. Media** from the **Activities** tab in the SmartDeploy console.



2. On the Welcome to the Media Wizard page, click Next.

🚺 Media Wizard	
Welcome to the Media Wizard This wizard helps you:	
• Build boot media. • Create offline deployment media.	
To continue, click Next.	
	Back Next Cancel

3. On the Select Task page, select WDS boot media, and then click Next.

Media Wizard
Select Task Select the task you would like to perform.
Select the Media you would like to create:
Boot media Creates a bootable USB/DVD with only the SmartDeploy Preinstallation Environment (SmartPE).
Offline deployment media Creates a bootable USB/DVD with all components required to boot and deploy target computers.
WDS boot media Creates media to PXE boot using Windows Deployment Services (WDS).
Network based deployment package Creates a package with all components required for push deployment using your existing network.
Back Next Cancel

4. On the **Platform Pack** page, click **Browse**. Select the folder that contains Platform Packs for the target computers. Select the Platform Pack file(s) that contains the drivers for the target computers by checking the box. Click **Next**.

booting and deployi	ng
Browse	U
Status	
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	Status           ОК           ОК           ОК           ОК           ОК           ОК           ОК           ОК           ОК           ОК

- 5. On the **Optional Components** page, you can select the additional components you would like to include. You can create or designate a custom answer file here. Click **Next**.
- 6. On the **Media Type** page, select the SmartPE configuration you would like to use, and then click **Next**.

Media Wizard	
Media Type Select the type of media to create.	
What type of media would you like to	create?
Configuration SmartPE (64-bit)	•
	Back Next Cancel

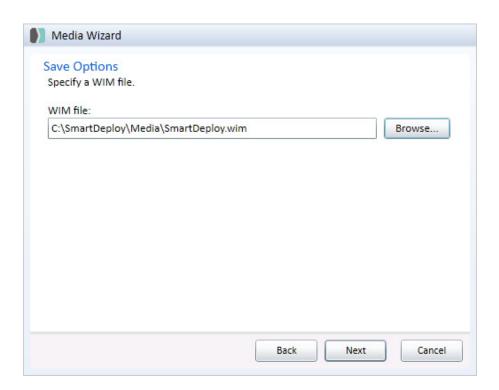
7. On the **Save Options** page, click Browse and save to the default folder, **C:\SmartDeploy\Media**.

owse

8. Click Save.

Save								×
← → • ↑ <mark> </mark>	$\rightarrow$ This PC $\rightarrow$ I	ocal Disk (C:)	> SmartDeploy > Med	lia 🗸 🗸	Ō	Search Media		Q
Organize 👻 Ne	w folder							?
ProgramDat SmartDeploy Answer File Cloud Dep Deploymer Images Logs Media	y es loymer	ime	^ No ite	ms match your	sear	Date modified	Туре	
Platform P	acks 🗸 <							>
File <u>n</u> ame:	SmartDeploy.w	im						~
Save as type:	WIM Files (*.wir	n)						~
∧ Hide Folders						Save	Cance	:I

9. On the Save Options page, click Next.



10. To create the media and close the wizard, click **Finish**.

Media Wizard
Creating Media To create the media and close this wizard, click Finish.
Back Finish Cancel

11. Wait while the custom SmartPE WIM file is created.

Media Wizard	
Creating Media	
Extracting SmartPE	
	Back Next Cancel

12. When finished, click **OK**.

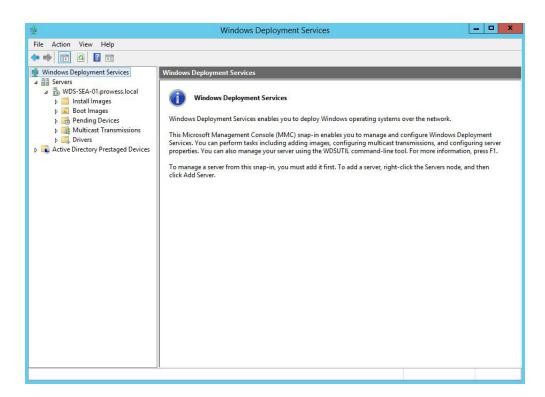
#### Import the Boot Image to WDS Server

Copy the SmartDeploy.wim file located in **C:\SmartDeploy\Media**, and import it to the WDS console so that SmartPE can be used as the WDS boot image.

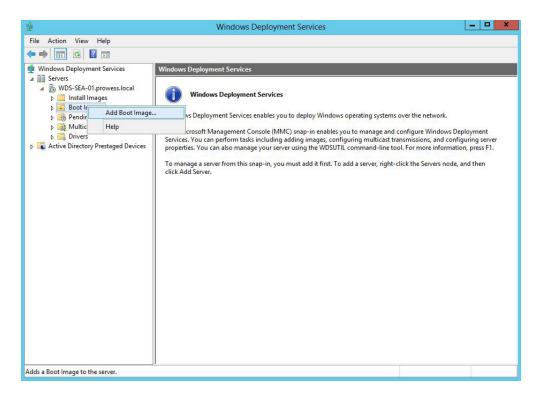
1. Start the WDS Management Console by clicking **Start > All Programs > Administrative Tools > Windows Deployment Services**.

File Home Shar	e View Manage			
	ystem and Security  Administrative Tools	~ ¢	Search Administ	trative Tools
👉 Favorites	Name	Date modified	Туре	Size
Desktop	Terminal Services	8/22/2013 8:39 AM	File folder	
Downloads	R Component Services	8/21/2013 11:57 PM	Shortcut	2 KF
🖳 Recent places	🛃 Computer Management	8/21/2013 11:54 PM	Shortcut	2 KE
_	Defragment and Optimize Drives	8/21/2013 11:47 PM	Shortcut	2 KE
This PC	Event Viewer	8/21/2013 11:55 PM	Shortcut	2 KE
	🗟 iSCSI Initiator	8/21/2013 11:57 PM	Shortcut	2 KE
🗣 Network	Local Security Policy	8/21/2013 11:54 PM	Shortcut	2 KE
	Microsoft Azure Services	11/21/2014 5:48 PM	Shortcut	2 KE
	ODBC Data Sources (32-bit)	8/21/2013 4:56 PM	Shortcut	2 KE
	📆 ODBC Data Sources (64-bit)	8/21/2013 11:59 PM	Shortcut	2 KE
	Performance Monitor	8/21/2013 11:52 PM	Shortcut	2 KE
	Resource Monitor	8/21/2013 11:52 PM	Shortcut	2 KE
	👼 Security Configuration Wizard	8/21/2013 11:45 PM	Shortcut	2 KE
	Server Manager	8/21/2013 11:55 PM	Shortcut	2 KE
	Services	8/21/2013 11:54 PM	Shortcut	2 KE
	System Configuration	8/21/2013 11:53 PM	Shortcut	2 KE
	🛃 System Information	8/21/2013 11:53 PM	Shortcut	2 KE
	Task Scheduler	8/21/2013 11:55 PM	Shortcut	2 KE
	だ Windows Deployment Services	8/21/2013 11:53 PM	Shortcut	2 KE
	🔗 Windows Firewall with Advanced Security	8/21/2013 11:45 PM	Shortcut	2 KE
	🐻 Windows Memory Diagnostic	8/21/2013 11:52 PM	Shortcut	2 KE
	😿 Windows PowerShell (x86)	8/22/2013 8:37 AM	Shortcut	3 KE
	😿 Windows PowerShell ISE (x86)	8/21/2013 11:55 PM	Shortcut	2 KE
	📷 Windows PowerShell ISE	8/21/2013 11:55 PM	Shortcut	2 KE
	Windows Server Backup	8/21/2013 11:53 PM	Shortcut	2 KE

2. Expand the nodes in the tree view to locate the boot images.



3. Click Boot Images, and then click Add Boot Image.



 Click Browse and browse to the location where you saved your boot WIM file you generated with the Media Wizard. Select that .WIM file and hit Next.
 Note: The default directory location of the boot WIM is C:\SmartDeploy\Media.

*	Windows Deployment Services	_ <b>D</b> X
File Action View Help		
Windows Deployment Services	🙅 Add Image Wizard 🗴	
	Image File	
<ul> <li>Boot minges</li> <li>Pending Devices</li> <li>Multicast Transmiss</li> <li>Drivers</li> </ul>	Enter the location of the Windows image file that contains the images to add.	over the network. onfigure Windows Deployment nsmissions, and configuring server
Active Directory Prestaged I	File location:	I. For more information, press F1.
	Note: The default boot and install images (Boot wim and Install.wim) are located on the installation DVD in the \Sources folder.	
	< Back Next > Cancel	

5. On the **Image Metadata** page, click **Next**.

*	Windows Deployment Services	×
File Action View Help		
<ul> <li>Windows Deployment Services</li> <li>Bervers</li> <li>WDS-SEA-01.prowess.ld</li> <li>Install Images</li> </ul>	Add Image Wizard	
<ul> <li>Boot Images</li> <li>Pending Devices</li> <li>Pending Devices</li> <li>Drivers</li> <li>Drivers</li> <li>Active Directory Prestaged</li> </ul>	Enter a name and description for the following image: 'SmartDeploy Preinstallation Environment (x64)' Image name: SmartDeploy Preinstallation Environment (x64) Image description: Created Tue 01/26/2016 8:48:50.80 Image architecture: x64 < Back Next > Can	over the network. onfigure Windows Deployment namissions, and configuring server I. For more information, press F1. ick the Servers node, and then
	n.	

6. On the **Summary** page, review the settings, and then click **Next**.

*	Windows Deployment Services	_ 🗆 X
File Action View Help		
	🖞 Add Image Wizard 🗙	
<ul> <li>▲ Servers</li> <li>▲ → WDS-SEA-01.prowess.lo</li> <li>▶ → Install Images</li> <li>▶ ▲ Boot Images</li> </ul>	Summary	
<ul> <li>Pending Devices</li> <li>Multicast Transmiss</li> </ul>	You have selected the following images	over the network.
<ul> <li>Drivers</li> <li>Active Directory Prestaged I</li> </ul>	Image group: Boot Images Image file: C:\SmartDeploy\Media\SmartDeploy.wim	hsmissions, and configuring server I. For more information, press F1.
	Selected images:	ick the Servers node, and then
	Name SmartDeploy Prenstallation Environment (x64)	
	To change your selection, click Back. To add the selected images to the server, click Next.	
	< Back Next > Cancel	
		_

7. Wait while the image is added.

2	Windows Deployment Services	_ <b>_</b> ×
File Action View Help		
	🐐 Add Image Wizard 🗙	
<ul> <li>Windows Deployment Services</li> <li>Servers</li> <li>Install images</li> <li>Soft images</li> <li>Pending Devices</li> <li>Multicast Transmiss</li> <li>Drivers</li> <li>Active Directory Prestaged</li> </ul>	Add Image Wizard	
	Adding boot image Adding Image 1 of 1 (SmartDeploy Preinstallation Environment (x64))	ver the network. onfigure Windows Deployment nsmissions, and configuring server I. For more information, press F1.
		ick the Servers node, and then
	< Back Finish Cancel	-

8. When the tasks are complete, click **Finish**.

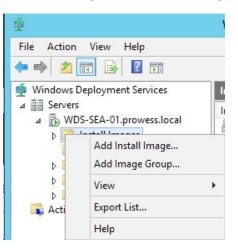
*	Windows Deployment Services	_ <b>□</b> X
File Action View Help		
<ul> <li></li></ul>	Add Image Wizard Task Progress The operation is complete	over the network.
	The selected images were successfully added to the server.	onfigure Windows Deployment nsmissions, and configuring server I. For more information, press F1. ick the Servers node, and then
	< Back Pinish Cancel	

#### Install the Image

Now it is time to import the customized Windows 10 install image; this is the image you captured with the Capture Wizard. You can use existing WDS image groups to categorize SmartDeploy images. Note that if you have just installed WDS and have not yet created image groups, no groups are displayed.

In this example, you add the image to the Windows 10 group and then locate and select the custom WIM volume image to deploy. The WIM volume image contains all the information needed for WDS to complete the import.

1. From the WDS Management Console, right click Install Images, select Add Install Image.



2. Use existing WDS image groups to categorize the SmartDeploy image. Select the **Select from** existing image groups button, make sure **Windows 10** is listed in the drop-down menu, and then click **Next**.

If there are no existing groups, you can select **Create a new image group** and type the name of the new group.

<b>*</b>	Windows	Deployment Services		_ <b>D</b> X
File Action View Help				
Windows Deployment Services	🙅 🛛 🖞 Add I	mage Wizard	×	
	Image Group			
Pending Devices     Multicast Transmissic     Pi Privers     Active Directory Prestaged D	This wizard adds an install image to yo image and one boot image on your ser Execution Environment (PXE) and inst	ur server. You must have at least one insta ver in order to boot a client using Pre-Boot all an operating system.	sli	
	An image group is a collection of image security. Enter the image group for the	es that share common file resources and install image that you want to add.		
	Select an existing image group	Windows 10	~	
	O <u>C</u> reate an image group named	ImageGroup1		
		< Back Next >	Cancel	
			1	

 Add the SmartDeploy images to the Windows 10 image group. Browse to your WIM location, C:\ SmartDeploy\Images\Windows 10 x64.wim (the custom WIM volume image to deploy). Click Next.

**Note**: Once you browse to your WIM and successfully import it into your WDS server, the WIM will be located in **\\wds-server\reminst\Images\groupname\**.

*	Windows Deployment Services	_ 🗆 X
File Action View Help		
🗢 🏓 🙇 🛅 🗟 🖬		
Windows Deployment Services I I Servers	🖞 Add Image Wizard 🗙	
	Image File	
Bending Devices     Multicast Transmissic     Bending Devices	Enter the location of the Windows image file that contains the images to add.	
Active Directory Prestaged D	File location: C:\SmatDeploy\Images\Windows 10x64.wim Browse	
	Note: The default boot and install images (Boot wim and Install wim) are located on the installation DVD in the \Sources folder.	
	< Back Next > Cancel	

4. The **Available Images** page shows the images that are available in the file. Make sure that **Windows10.wim** is selected, and then click **Next**.

*	Windows Deployment Services	_ 🗆 X
File Action View Help		
Windows Deployment Services	Add Image Wizard	
✓ B WDS-SEA-01, prowess.loc ✓ Install Images ▶ E d Test	Available Images	
<ul> <li>▷ </li> <li>▷ </li> <li>➢ Windows 7</li> <li>▷ </li> <li>➢ Windows 8.1</li> </ul>	The file that you specified contains the following images. Select the images that you want to add to the server.	
Boot Images	Name Architecture Description	
<ul> <li>Pending Devices</li> <li>Multicast Transmissic</li> <li>Trivers</li> <li>Active Directory Prestaged D</li> </ul>	✓ Windows 10 x x64 Windows 10 Enterprise x64 - Updated	
	Use the default name and description for each of the selected images	
	< Back Next > Cancel	

5. On the **Summary** page, review the settings, and then click **Next**. The selected image, Windows 10, is added to the server.

*	Windows Deployment Services	_ 🗆 X
File Action View Help		
🗢 🌩 🙎 📰 🔒 📓 🖬		
<ul> <li>Windows Deployment Services</li> <li>Bervers</li> </ul>	Add Image Wizard	
<ul> <li>WDS-SEA-01.prowess.loc</li> <li>▶ Install Images</li> <li>▶ Boot Images</li> </ul>	Summary	
<ul> <li>Pending Devices</li> <li>Multicast Transmissic</li> <li>Drivers</li> </ul>	You have selected the following images	
Active Directory Prestaged D	Image group: Windows 10	
	Image file: C:\SmartDeploy\Images\Windows 10x64.wim	
	Selected images:	
	Name Windows 10x64	
	To change your selection, click Back. To add the selected images to the server, click Next.	
	< Back Next > Cancel	

6. When the task is complete, click **Finish**.

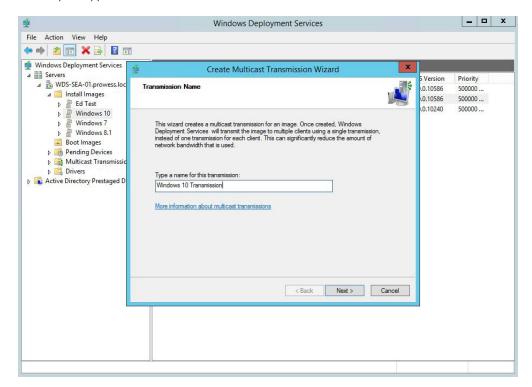
#### **Use Multicast Transmission**

As part of integration into WDS, you can choose to create a multicast transmission.

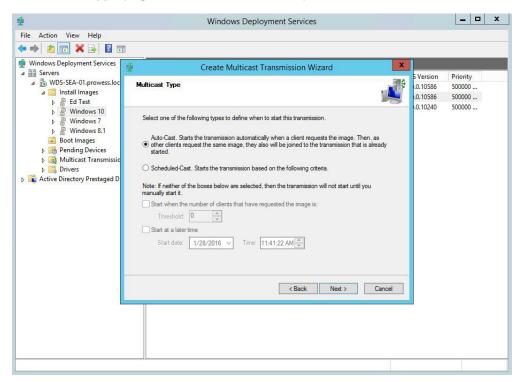
1. In the **Windows Deployment Services Management Console**, click on **Windows 10**, and then click on **Create Multicast Transmission**.

*	Win	ndows Deployme	ent Servio	ces			- 5	X
File Action View Help								
🗢 🔿 🙍 📰 🗙 🗟 🖬								
Windows Deployment Services	Windows 10 1 Install Image(s)							
A Servers	Image Name	Architecture	Status	Expanded Size	Date	OS Version	Priority	
<ul> <li>WDS-SEA-01.provess.local</li> <li>Install Images</li> <li>Windows 10</li> <li>Windows 7</li> <li>Windows 8.1</li> <li>Boot Images</li> <li>Boot Images</li> <li>Multicast Transmissions</li> <li>Windows 2</li> </ul>	Windows 10 x64	x64	Disal Expo Repla	erties ble rt Image ace Image te Multicast Transr te	1/28/20116	10.0.10586	500000	
Launches a new wizard to create the namespa	ce							

2. On the **Transmission Name** page, type the name of the transmission, and the click **Next**. In this example, type: **Windows 10 Transmission** 



3. On the **Multicast Type** page, leave the **Auto-Cast** option selected, and then click **Next**.



4. When the task is complete, click **Finish**.

#### Boot to SmartPE and Deploy the Image

You are now ready to boot your target computer to SmartPE. The target computer uses the boot WIM file to PXE boot.

 Using the existing PXE environment, the target computer picks up the boot WIM file imported earlier and boots to SmartDeploy. Click on **Deploy an image** to start the Deploy Wizard. **Note:** you can also automate the deployment process using answer files.

smartJeploy	
Deploy an image Settings Exit	Welcome to SmartDeploy Enterprise SmartDeploy Enterprise helps you build, capture, and deploy system images of Windows <sup>®</sup> while simplifying hardware support and image updates. To begin, select a task on the left. For more information, review the SmartDeploy Enterprise User's Guide or visit http://www.smartdeploy.com.

2. On the Welcome to the Deploy Wizard page, click Next.

Deploy Wizard				
Welcome to the Deploy Wizard				
This wizard helps you:				
<ul> <li>Select deployment options.</li> </ul>				
<ul> <li>Deploy an image.</li> </ul>				
To continue, click Next.				
				n'
			Advanced	
			-	_
	Back	Next	Cancel	

3. Locate the Windows 10 WIM. On the **Select Image** page, click **Browse**, and then click **Network** to browse to the network share where the image is located.

ile:			Browse
mage name:			
			•
mage description:			

4. On the **Map Network Drive** page, provide the network location to the WDS remote install share (WDS repository **\\sde-host\reminst**), and then click **OK**.

	1	Select a Windows Image		23
Look in:	E Desktop		• 🖬 🎁	
9		Map Network Drive		-
Recent places	Specify the	drive letter for the connection and the fold	er to connect to:	
Desktop	Drive:	Z:	<b>•</b>	[
Libraries	Folder:	\\wds-sea-01\reminst		
This PC	Ì	Example: \\server\share		
marc		ОК	Cancel	
	File name:		▼ Ope	an
	Files of type:	Image Files (*.wim;*.dwm;*.swm)	Cano	cel
		C Open as read-only	Netwo	ork

5. On the **Enter network credentials** screen, type your credentials, and then click **OK**.

Look in:	🗾 Desktop	<b>•</b>	🗕 🛍 🚔 🖪	•
Ca.	Ŵ	/indows Security		×
Recent places	Enter network cred Enter your credentials to		01	
Desktop	Deploy	demo\administrator		
Magentine (Construction) This PC		: Deploydemo ember my credentials		
			ОК	Cancel
	ics or type. I image mes	( .wim, .dwm, .swin)		odnoo

		Select a Window	vs Image		×
Look in:	Desktop		•	+ 🗈 💣 📰	
Recent places	SYS	TEM		This PC	
Desktop	Libr	aries			
Libraries					
This PC					
	File <u>n</u> ame:				<u>O</u> pen
	Files of type:	Image Files (*.wim	;*.dwm;*.swm)	•	Cancel
		Open as read-o	only		Network

6. Locate and select the Windows 10 WIM on the mapped drive. Click **Computer**.

7. Scroll to the Network Location.

		Select a Windows In	nage		×
Look in:	Desktop		-	+	<b>.</b>
Recent places Desktop Libraries With PC	CD Driv	ents p s bads Disk Drive (A:) Reserved (C:) Disk (D:) ve (E:)		This PC	
	File name:			•	Open
	Files of type:	Image Files (*.wim;*.dwn	n;*.swm)	•	Cancel
		Open as read-only			Network

		Select a Windows	Image		×
Look in:	🖵 reminst (\\	wds-sea-01) (Z:)	•	← 🗈 💣 📰 🔹	
œ.	Name	^		Date modified	Туре
	Boot			10/1/2015 12:29 PM	File folde
ecent places	🍌 Images			1/7/2016 11:14 AM	File folde
	🍌 Mgmt			1/24/2016 4:12 AM	File folde
Desktop	Stores			10/1/2015 12:29 PM	File folde
-	🍌 Template	s		10/1/2015 12:29 PM	File folde
67776	📕 Tmp			1/26/2016 11:13 AM	File folde
Libraries	🕌 WdsClient	tUnattend		10/1/2015 12:29 PM	File folde
This PC	<				>
	File name:			•	Open
	Files of type:	Image Files (*.wim;*.d	lwm;*.swm)	•	Cancel
		C Open as read-only	r		Network

8. Browse to Z:\images\windows 10\windows 10.wim.

9. On the Select Image page, click Next.

\Images\Windows 10\Windows 10 x64.wim Brow age name: /indows 10 x64	SC
11100103 20 201	
age description: 'indows 10 Enterprise x64 - Updated 1/28/16	

10. In the **Deploy Wizard** dialog box, click **Yes** to indicate that the image is a WDS multicast-enabled image.

	The second second	/s 10 x64.wim			Browse
mage nam Windows mage desc Windows	Deploy Wizard Do you want to do transmission?	eploy this ima	ge using a m Yes	ulticast No	

11. In the **WDS Credentials** dialog box, type the credentials for the WDS server, and then click **OK**.

File:	WDS Crede	age to deploy. ntials
Z:\In	Please provi server insta	ide the network credentials required to access the WDS Ilation.
Win	Server:	-
Imagi	Username:	
Wint	Password:	
		Domain: MININT-SAOLB48
		OK Cancel

12. On the **Disk Options** page, note that SmartDeploy provides several disk options. Select **Recreate drives**, the recommended option. This option repartitions and formats all drives targeted by the image.

**Note**: selecting this option destroys all existing data on the destination disks.

Deploy Wizard	
Disk Options	
Specify how you would like disk Would you like to:	ks to be provisioned.
• Recreate drives (recommen	nded)
best foundation for the ope	Il drives targeted by the image. This option provides the erating system and applications. oy all existing data on the destination disks.
Wipe & load drives	
Clears data from drives targ	geted by the image without modifying the existing disk n also be configured to protect a specific folder to help

13. Next, you are prompted for standard Windows information.

- The Product Key page appears. If you did not specify a product key when you captured an image, you can enter the product key now. Click **Next**.
- On the User Information page, enter the user name and organization. Click **Next**.
- On the Regional Settings page, specify the time zone and language. Click Next.
- On the Display Settings page, accept the default of Auto Detect. Click Next.

**Note:** if you are using an answer file, this can be automated.

lease provide settings for primar ne default networking settings.	y network ada	pter. A	Addition	nal adapt	ers will assum
<ul> <li>Obtain an IP address automa</li> </ul>	tically				
Use the following IP address: -					î
IP address:					
Subnet mask:		14			
Default gateway:		14	-		
<ul> <li>Obtain a DNS server address</li> </ul>	automatically	,			
O Use the following DNS serve	r address: —	6			
Preferred DNS server:					
Alternate DNS server:					

14. In this example, the target computer is deployed to an existing domain. Enter the desired computer name and domain, and then click **Next**.

	uter name: ows10PC				
	nber of:				
•	Domain: (in FQDN format)				
	Smartdeploydemo	•			
	Organizational unit: (in Distinguished Name format)				
0	Workgroup:				
	WORKGROUP				

15. On the **Join Domain Credentials** page, type your user name, domain, and password, and confirm. Click **Next**.

Deploy Wi Join Doma	in Credentials
	main\username and password of an account with sufficient priviliges to nputer to the domain.
Username:	Smartdeploydemo\Administrator
Password:	•••••
	Domain: Smartdeploydemo
	Back Next Cancel

- 16. Review your selections on the **Summary** page, and then click **Next**. The wizard is ready to provision the disks and apply the volume image.
  - Note: you can save your selections to an answer file to automate the process by clicking **Export**.

Image Sele	ection				-
Image file:	Z:\Images\Win	dows 10\Wind	lows 10 x64.wi	m	
Image nan	ne: Windows 10	x64			
Image des	ription: Windo	ws 10 Enterpri	se x64 - Update	ed 1/28/16	
Disk Optio	ns				
Disk option	n: Recreate drive	es			
User Infor	mation				
Full name:	User				
Organizati	on name:				
Regional S	ettings				
Time zone	: (GMT-08:00) P	acific Time (US	and Canada)		
Language	country / region	: English (Unit	ed States)		3
	r selections to a	un angular fila	aliak Evenant	(	Export

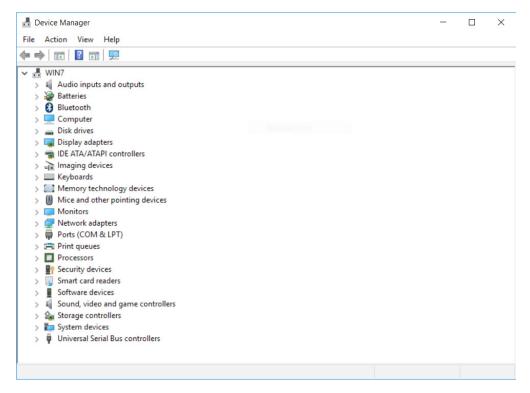
17. To deploy the image and close the wizard, click **Finish**. The image will now be deployed.

Finish				
To deploy the image an	d close this wize	ard, click Finish.		

#### Verify with the Device Manager

Finally, verify that your hardware is recognized and that the target computer is ready. After the image is applied, Windows continues the setup procedures, including completing SYSPREP tasks, updating registry settings, installing devices, and joining the domain.

- 1. When setup is complete, log on as an administrator.
- 2. You can open device manager and see the results of the Platform Pack technology. Click on **Start > All Programs > Computer > Manage**.
- 3. You can see that all hardware is recognized and the target computer is ready to go.



### Summary

It is easy to integrate custom WIM images created with SmartDeploy into Windows Deployment Services. Not only does this let you to take advantage of the time and cost saving benefits of SmartDeploy within WDS, but it also lets you extend the functionality of WDS beyond its native capabilities. Using SmartDeploy you only need to create and use a single image regardless of architecture or platform. You treat images created with SmartDeploy like you would any other install image in WDS. And the hardware-independent capabilities of SmartDeploy reduce the pain and frustration experienced by IT professionals who are responsible for supporting multiple computer models from multiple manufacturers.

## More Information

The following links provide further information:

- SmartDeploy Enterprise User's Guide
- SmartDeploy Home Page
- DeployCentral Forum
- Windows Deployment Services Getting Started Guide