smartJeploy[®]

How to Integrate SmartDeploy Enterprise with System Center Configuration Manager

SmartDeploy Revised: March 2017

Integrating SmartDeploy Enterprise with Microsoft System Center Configuration Manager expands the native functionality of System Center Configuration Manager to add the time-saving benefits of SmartDeploy.

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SmartDeploy and System Center Configuration Manager Integration

Microsoft System Center Configuration Manager is a powerful client, server, and mobile device management suite. This document shows how SmartDeploy Enterprise can be used with System Center Configuration Manager to extend the operating system deployment features of both products.

SmartDeploy Enterprise is a hardware-independent imaging solution that is built upon Microsoft utilities to simplify enterprise image deployment. SmartDeploy uses the Windows imaging format to store images. A highly customized version of Windows Preinstallation Environment (Windows PE) provides for the image deployment environment on the target device. It is this deep integration with standard Microsoft utilities that makes SmartDeploy a unique fit for integration with System Center Configuration Manager.

One of the main benefits of integrating SmartDeploy Enterprise with System Center Configuration Manager is the use of Platform Packs. Platform Packs are the mechanism behind the hardwareindependent imaging model in SmartDeploy Enterprise. These packs contain all of the device drivers for a specific make and model of computer. As part of the support contract with SmartDeploy Enterprise, these packages are created and made available for download from SmartDeploy.com, which can save a tremendous amount of time over downloading, importing, organizing, and creating packages within System Center Configuration Manager.

SmartDeploy also offers easy-to-use wizard driven applications to reduce the overall time of deployment, while maintaining an advanced feature set that provides flexibility in the imaging process. When coupled with System Center Configuration Manager, SmartDeploy reduces the efforts of deploying an operating system image, while providing the ability to target specific collections of devices and advanced Wake On local area network (LAN) features that are included with System Center Configuration Manager.

How To Integrate SmartDeploy With SCCM

The following sections walk you through the process of integrating SmartDeploy with System Center Configuration Manager. You are first guided through the process of creating SmartDeploy boot media. This boot media is then imported to the System Center Configuration Manager Console and added to distribution points. Next, you add your reference image to System Center Configuration Manager and create a task sequence to deploy this image to select target devices.

Before You Begin

This document shows you the procedures needed to integrate the SmartDeploy deployment method with System Center Configuration Manager. It is assumed that the reader currently has a configured System Center Configuration Manager site with a pre-boot execution environment (PXE) service point in place, and has captured an image with SmartDeploy using the Capture Wizard. For more information on installing and configuring System Center Configuration Manager, please read the product documentation.

Create SmartPE Boot Media

The first step in integrating SmartDeploy with System Center Configuration Manager is to build boot media with driver support for your environment. This is done via Media Wizard with a default Platform Pack that encompasses all computer models.

 From the SmartDeploy Console select 5. Media from the Activities tab to launch the Media Wizard.



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



3. On the **Select Task** page, select **WDS boot media**, and then click **Next**. The WDS boot media option means that Media Wizard creates a WIM-only version of the boot environment.

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**.

arget computers.	or booting and deploying	це
latform Pack Location:	Browne	
c. (SmartDeploy (Platform Packs	Browse	
✓ Platform Packs	Status	
DellLatitudeE7250-Windows7.ppk	ОК	
DellLatitudeE7440-Windows81.ppk	ОК	
 DellLatitudeE7450-Windows81.ppk 	ОК	
DellOptiPlex3020-Windows7.ppk	ОК	
LenovoThinkPadT430-Windows81.ppk	ОК	_
LenovoThinkPadT440-T440s-Windows7.ppk	OK	
4		

5. On the **Optional Components** page, you can select or create an answer file to customize your deployment, and click **Next**.

Media Wizard Optional Components Select the additional componen	nts you would like to incl	ude.	
Custom answer file:		Create	Browse
	Back	Next	Cancel

6. On the **Media Type** page, select the media type you would like to use. For this example, make sure that SmartPE (64-bit) is selected to create a SmartPE boot environment to deploy 64-bit operating systems, and then click **Next**.

Media Wizard				
Media Type				
Select the type of media to cre	ate.			
What type of media would you	like to create	2		
what type of media would you	The to create			
Configuration				
SmartPE (64-bit)			-	
		Pack	Neut	Canaal
		Back	Next	Cancel

7. On the **Save Options** page, type the path and name of the WIM file. For this example, type **C:\ SmartDeploy\Media\SmartDeploy.wim**, and then click **Next**.

Media Wizard	
Save Options	
specity a which he.	
WIM file:	Browse
	biowsc
	Back Next Cancel

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



- 9. Wait while the custom SmartPE WIM file is created.
- 10. Click **OK**. Boot media is created in the specified folder. In this example it should be in **C:\ SmartDeploy\Media** with the name **SmartDeploy.wim**.

Media Wizard				
Creating Media				
Finished				
Media V	/izard			1
Media	a created successfully.			
			ОК	
		Back	Next	Cancel

Import SmartPE to System Center Configuration Manager

 If you are using Windows 7 SP1 or Server 2008 R2: Open Configuration Manager Console from Start > All Programs > Microsoft System Center > Configuration Manager 2012 > Configuration Manager Console.

If you are using Windows 8.1/10 or Server 2012/R2: Open Configuration Manager Console from Start > All Apps.

2. From the Configuration Manager Console, click Software Library.



3. Expand Operating Systems, right click Boot Images, select Add Boot Image.

Folder Tools System	Cent	er 2012 R2 Configuration	n Manager (Connected	d to SAC - coope	r.test)		- 8 ×
Home Folder							^ 🕜
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Add Boot Saved							
Create Search							
🗲 🔶 👻 📷 🛝 🕨 Software Library	• (Overview 🕨 Operating Syste	ems 🕨 Boot Images				- 2
Software Library <	Boot li	nages 2 items					
 A Overview 	Search	h				🗙 🔎 Search	Add Criteria 🔻
Application Management	lcon	Name	Version	Comment	Image ID	OS Version	
Software Updates		Boot image (x64)	6.3.9600.16384		SAC00005	6.3.9600.1	
 Operating Systems 	100	Boot image (x86)	6.3.9600.16384		SAC00004	6.3.9600.1	
Drivers							
📑 Driver Packages							
🜉 Operating System Images							
solution System Installers							
👼 Bog							
Tasl	-Se						
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G Virt Folder	•						

4. The **Add Boot Image Package Wizard** opens. On the **Data Source** page, type the path to the boot media, **SmartDeploy.wim**, that was created in the previous section. Leave the **Boot Image** dropdown as the default setting: 1-SmartDeploy Preinstallation Environment. Click **Next**.

	Add Boot Image Wizard
Data Source	
Data Source General Summary	Browse to the data source for the boot image
Progress Completion	Add a Boot Image to use with Operating System Deployment.
	Specify a path to the Boot Image WIM file.
	Path: Example: \\servername\sharename\path\tile.WIM M2012R2\Users\Administrator\Downloads\SmartPE WIM\SmartDeploy.wim L Chot a Back loss of the MVIM Cho
	Select a Boot image from the specified with the. Boot Image: 1 - SmartDeploy Preinstallation Environment
	< <u>Previous</u> <u>Next</u> <u>Summary</u> Cancel

5. Provide details about the boot image for identification purposes. Click **Next**.

Folder T	ools System	n Center 2	012 R2 (Configura	ation Man	ager (Conne	cted to SA	AC - cooper.te	est)			- 8
e Folde	er											*
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Saved	- Star				Distribu	ute Content V	Vizard					
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a Undates	Completion	1		distribution p	oint groups th	to the following d hat are currently as	stribution poil isociated with	n collections.	nt groups,	and the	rsion	
a Systems											00.1	
e state				Content des	tination:						01.1	
Packages				Filter					2	Add 🔻		
ting System				Name		Description		Associations		Collection	5	
ting System					Inere	are no items to s	now in this \	/iew.		Distributio	n Point	
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6. Review the information on the **Summary** page, then click **Next**.



7. Wait for the Wizard to complete, the click **Close**.

a	Add Boot Image Wizard	x
Completion Data Source General Summary Progress Completion	Add Boot Image Wizard Image Wizard completed successfully Details: Image Success: Data Source Information • Source location: \\127.0.0.1\c\$\Users\Administrator\Downloads\SmartPE WIM \\SmartDeploy.wim • Boot Image: 1 - SmartDeploy Preinstallation Environment Image: Success: Package Information • Name: SmartPE • Version: 1.1.2010 • Comment: SmartDeploy Boot Environment	
	To exit the wizard, click Close. < Previous Next > Summary Close	

8. The boot image is now added to the Configuration Manager Console.

Folder Tools System	n Center	2012 R2 Configurati	on Manager (Connected	I to SAC - cooper.te	est)		- 8 ×
Home Folder							^ 🕜
💐 🗭							
Add Boot Saved Image Searches •							
Create Search							
🗲 🌖 👻 📷 🛝 🕨 Software Librar	y ► Ov	erview 🕨 Operating Sy	items 🕨 Boot Images				- 2
Software Library <	Boot Ima	ages 3 items					
4 🦸 Overview	Search					🗙 🔎 Search	Add Criteria 🔻
Application Management	lcon	Name	Version	Comment	Image ID	OS Version	
Software Updates		Boot image (x64)	6.3.9600.16384		SAC00005	6.3.9600.1	
Operating Systems		Boot image (x86)	6.3.9600.16384		SAC00004	6.3.9600.1	
Drivers	2	SmartPE	1.1.2010	SmartDeploy B	SAC00009	6.1.7601.1	
📑 Driver Packages							
🜉 Operating System Images							
Notes a constant and the second secon							
🔂 Boot Images							

Add Boot Image to Distribution Point

1. From the Software Library, expand **Operating Systems > Boot Images**.

Folder Tools System	Center 2	012 R2 Configuration N	lanager (Connected to)	SAC - cooper.te	est)		- 8 ×
Home Folder							^ 🕐
Add Boot Image Searches • Create Search							
← → ▼ 📷 \ ► Software Library	• • Over	view 🕨 Operating Systems	 Boot Images 				• 2
Software Library <	Boot Imag	es 3 items					
Search Search Add							
Application Management	Icon N	lame	Version	Comment	Image ID	OS Version	
Software Updates		Boot image (x64)	6.3.9600.16384		SAC00005	6.3.9600.1	
Operating Systems		Boot image (x86)	6.3.9600.16384		SAC00004	6.3.9600.1	
Drivers	a	SmartPE	1.1.2010	SmartDeploy B	SAC00009	6.1.7601.1	
Driver Packages							
🜉 Operating System Images							
Notes and the second states and the second s							
Boot Images							
Task Sequences							
📼 Virtual Hard Disks							

2. Right click on the SmartDeploy boot image, select Distribute Content.

Add Boot Saved Image Searches •	Distribute Content	Update Distribution Points	mage Access Accounts	Move Set S	Security Propertie	-5	
Create Search Boot Image		Deploymen	t	Move CI	assify Propertie	:5	
🗲 🔶 👻 📷 🛝 🕨 Software Librar	y 🕨 Overvie	ew 🕨 Operating System:	s ▶ Boot Images				- 2
Software Library	Boot Images	3 items					
🖌 🦪 Overview	Search					🗙 🔎 Search	Add Criteria 🔻
Application Management	Icon Na	me	Version	Comment	Image ID	OS Version	
 Software Updates Operating Systems 	Boot image (x64) Boot image (x86)		6.3.9600.16384 6.3.9600.16384		SAC00005 SAC00004	6.3.9600.1 6.3.9600.1	
Drivers	📷 Sn		1 1 2010		SAC00009	6.1.7601.1	
📑 Driver Packages		X Delete	F5 Delete				
Operating System Images Operating System Installers		Distribute Content	Ν				
Boot Images		1 Update Distribution	n Points Content File				
Task Sequences		Create Prestaged Co					
📼 Virtual Hard Disks		Manage Access Acc	ounts				
		Move					
	SmartPE	Set Security Scopes					~
Accels and Compliance	Summary	Properties		5	Relat	ed Objects	*

3. The **Distribute Content Wizard** will open, click **Next**.

-	Distribute Content Wizard	x
General		
General Content Destination Summary Progress Completion	Review selected content You have selected the following content for distribution. Cgritent: Similar PE	n be
	< Previous Next > Summary Car	icel

4. On the right side of the window, click **Add**, and select **Distribution Point** or **Distribution Point Group** based on your Configuration Manager settings.

	Rofroch	1		* Croate Br	Content Wizard		0	(mm)	x		
d es.▼ h		Content Destina	tion	Distribut							
•	General Content I	Destination	Specify t	he content	destination					Search	Add C
lanagi ates ;tems	Progress Completion		Content wil distribution Content de	be distributed to point groups that stination:	the following distribution are currently associated	points, distribution with collections.	point groups	, and the		rsion i00.1 i00.1	
			Filter				2	Add	•		
ages			Name		Description	Associations		Collecti	ons		
ystem				There a	re no items to show in th	nis view.		Distribu	tion Poin	it	
ystem								Distribu	tion Poin	t Group	-
s nces I Disks							0				
plian											
y										tatus	
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		Language:		English	F IVI)						

5. Check the box next to the Distribution Point(s) you would like to add the boot image to, click **OK**.

1	Distribute Content Wizard								
Cor	ntent Destination								
General	Add Distribu								
Content Des	Select distribution points that will host this content.	R							
Summary Progress	Software Update Packages are never distributed to	the							
Completion	Available distribution points:								
	Filter	9							
	Name	Type Description	dd 🔻						
		OK Cancel	move						
	< P	revious Next > Summary	Cancel						

6. Click **Next** until the Wizard finishes. Click **Close**.

- San Carlor San Carlo	Distribute Content Wizard	x
Completion		
General Content Destination Summary Progress Completion	Details: Content (1): • SmartPE Collections (0): Distribution point groups (0): Distribution points (1): • SCCM2012R2.COOPER.TEST	
	To exit the wizard, click Close. < Previous	e

7. Ensure content status in the pane below shows that the content was distributed successfully before deploying.

Folder Tools System	Center	2012 R2 Configu	ration M	anager ((Connected to	SAC - co	oper.te	est)		l	- 8 ×
Add Boot Image Create C	Distribu Conter	rte Update nt Distribution Points De	Crea So Man S ployment	ite Prestage age Access	d Content File Accounts	Move Move	Set Se Sco Cla	ssify P	roperties roperties		^ @
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Application Management	lcon	Name		Version		Comment	t	Image ID		OS Version	
Software Updates		Boot image (x64)		6.3.9600.1	6384			SAC00005		6.3.9600.1	
Ø Operating Systems		Boot image (x86)		6.3.9600.1	6384			SAC00004	0	6.3.9600.1	
Drivers	-	SmartPE		1.1.2010		SmartDe	ploy B	SAC00009	0	6.1.7601.1	
📴 Driver Packages						\mathbb{R}					
🜉 Operating System Images											
Noterating System Installers											
🔂 Boot Images											
Task Sequences											
Virtual Hard Disks											
	Smart	PE									*
🚒 Assets and Compliance	Summa	ary			Content Status				Related	Objects	
Software Library	Com	ment:	SmartD y Boot	eplo			Success In Progr	s:1 ess:0	G	ontent Status	E
Monitoring			t	men			Unknow	m: 0			
Administration	Arch Versi Lang	itecture: ion: uage: v Details	X86 1.1.2010 English)	1 Targeted (L PM)	.ast Update	e: 10/28/	2014 3:23			-
Ready		,									
										- 18 19 (3:23 PM 10/28/2014

Import Operating System Image to System Center Configuration Manager

1. From the Software Library, expand **Operating Systems**, then right click **Operating System Images** and select **Add Operating System Image**.

	Folder Tools	System	Center	2012 R2 Configur	ation Manager (Connected to	o SAC - co	oper.test)		- 8 ×
Home	Folder									^ 🔞
2	Ź									
Add Operating System Image	Saved Searches •									
Create	Search									
← → - 💆	\ ► Softw	are Library	/ ▶ Ov	erview 🕨 Operating	Systems 🕨 Oper	ating System Im	ages			- 2
Software Library		<	Operatir	ng System Images 0 ite	ms					
A Poverview Search							🗙 🔎 Search	Add Criteria 🔻		
Application Management Icon Name Version Scheduled Updates Date						Scheduled Updates Date	Scheduled Updat	tes Status C		
🕨 🚞 Software U	pdates					0	No items for	ind		
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Drivers										
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Nerating	g System I			Stational Income						
Not the second s	g System I 📑	Add Op	berating 5	ystem image	-					
👼 Boot Ima	ges	Folder		•						
🛐 Task Sequ	uences									
📼 Virtual Ha	ard Disks									

2. Enter the path to the image file that was created using the Capture Wizard, then click **Next**.

<u>م</u>	Add Operating System Image Wizard	x
Data Source		
Data Source General Summary Progress Completion	Browse to the data source for the operating system image	
	Specify the path to the operating system image file.	
	Path: Example: \\servername\sharename\path\file.WIM \\SCCM2012R2\Users\Administrator\Downloads\Win81x64.wim Browse Browse Browse]
	< Previous Next > Summary Cancel	

3. Enter any descriptive information for the image and click **Next**.

т <u>а</u>	Add Operating System Image Wizard	x
General		
Data Source General	Type general information for the operating system image	
Summary Progress Completion	Provide a name, version, and comment for the operating system image.	
completion	Name: Win81x64	
	Version: 10	5
r	Comment: Clean install of Windows 8.1 64-bit edition, captured using the SmartDeploy Capture Wizard.	^
s		¥]
	6	
	< Previous Next > Summary Cancel	I

4. On the **Summary** page, review the information and click **Next**.

W	Add Operating System Image Wizard	x					
Summary							
Data Source General	To create the Operating System Image, click Next						
Summary Progress Completion	Details: Data Source Information • Source location: \\127.0.0.1\c\$\Users\Administrator\Downloads\\Vin81x64.wim Package Information • Name: Win81x64. • Version: 1.0 • Comment: Clean install of Windows 8.1 64-bit edition, captured using the SmartDeploy Capture Wizard.						
	To change these settings, click Previous. To apply the settings, click Next.						
	< Previous Next > Summary Cancel						

5. Wait for the image to be added. On the **Confirmation** page, ensure the operation was successful and click **Close**.



Adding the Operating System Image to Distribution Points

1. From the Software Library, expand **Operating Systems > Operating System Images**.

	Folder Tools S	ystem	Cente	r 2012 R2 (Configuratio	n Manager (Connect	ed to SAC - c	cooper.test)			- 8 ×
Home	Folder											^ 🔞
Add Operating System Image Create	Saved S Searches • U Search	chedule Jpdates	Scheo Operati	Cancel Juled Updates	Refresh X Delete	Deployment	Move Move	Set Security Scopes Classify	Properties Properties			
← → - 🖉	↓ ▶ Software	Library	• 0	verview 🕨	Operating Syst	ems 🕨 Oper	ating Syste	em Images				- 2
Software Library		<	Operati	ng System Im	ages 1 items							
/ 💣 Overview			Search								🗙 🔎 Search	Add Criteria 🔻
 Application 	n Management		lcon	Name	*		Version		Scheduled L	Jpdates Date	Scheduled Upda	tes Status C
🕨 🧮 Software U	 Software Updates 						1.0					(
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Drivers												
Driver Pa	ackages											
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👼 Boot Ima	iges											
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😑 Virtual H	ard Disks											
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			Win8	1x64								~
			-									*
Assets and C	Compliance		Summ	hary			Content	t Status		Related	I Objects	
Software Lib	rary		Con	nment:	Cle	an install Windows			Success: 0 In Progress: 0		Content Status	=
Manitanian					8.1	64-bit			Failed: 0			
Monitoring					edi	tion, otured						
Administration Using the PM PM												
		-	Summa	ry Details	Sm Disk Configura	tion Undate S	tatus					Ŧ
Ready				.y								
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2. Right click on your **Operating System Image**, select **Distribute Content**.



3. On the **Review Selected Content** page of the **Distribute Content Wizard**, click **Next**.

da l	Distribute Content Wizard	x
General		
General Content Destination Summary Progress Completion	You have selected the following content for distribution.	_
	Content: Win81x64 Some content might have associated dependencies that must be installed before the content can be installed. Detect associated content dependencies and add them to this distribution	< >
	< Previous Next Summary Cancel	

4. On the right side of the window, click **Add**, and select Distribution Point or Distribution Point Group based on your Configuration Manager configuration.

	Distribute Content Wizard	x
Summary		
General Content Destination Summary	Confirm the settings	
Completion	Content (1): • Win81x64 Collections (0): Distribution point groups (0): Distribution points (1): • SCCM2012R2.COOPER.TEST To change these settings, click Previous. To apply the settings, click Next.	
	< Previous Next > Summary Cancel	

5. Check the box next to the Distribution Point(s) you would like to add the boot image to, click **OK**. Click **Next** until the wizard finishes, then click **Close**.

\$ 1		Distribute Content Wizard	x
	Completion		
General Conten Summary Progress	t Destination	The Distribute Content Wizard completed successfully	
Completio	n	Content (1): • Win81x64 Collections (0): Distribution point groups (0): Distribution points (1): • SCCM2012R2.COOPER.TEST To exit the wizard, click Close.	
		< Previous Next > Summary Close	L.

6. Ensure content status in the pane below shows that the content was distributed successfully before deploying.



Create a Task Sequence

- 1. From the **Configuration Manager Console**, click **Software Library**.
- 2. Expand **Operating Systems > right click Task Sequences**, select **Create Task Sequence**.

Folder Tools System	m Center 2012 R2 Configuration Mana	ger (Connected to SAC - cooper.test)		- 8 ×
Home Folder				^ 🔞
Create Task Sequence Media Create	sk Saved e Searches - Search			
← → ▼ 🖄 \ ► Software Libra	ry 🕨 Overview 🕨 Operating Systems 🕨	Task Sequences		- 2
Software Library <	Task Sequences 0 items			
4 🗇 Overview	Search		🗙 👂 Search	Add Criteria 🔻
Application Management	Icon Name	Description Package ID	Date Created	
🕨 🚞 Software Updates		No itoms found		
🔺 🚞 Operating Systems		W No items found.		
Drivers				
Driver Packages				
🜉 Operating System Images				
💺 Operating System Installers				
👼 Boot Images				
Task Sequences	Create Task Sequence			
🔤 Virtual Hard Disks	Create Task Sequence Media			
>	mport Task Sequence			
	Folder N			
	, idei			
Note: Assets and Compliance				
Software Library				
Monitoring				
Administration				
•				
Ready				
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3. Select Create a new custom task sequence, and then click Next.



4. Enter a Name and Comment for your task sequence. Next to Boot image, select Browse and then select the SmartPE boot image. Click **OK** to return to the previous screen.

12	Create Task Sequ	Jence Wizard
Task Sequence In	nformation	
Create New Task Sequence Task Sequence Information Summary Progress Completion	Specify task sequence in Iask sequence name:	formation SmartDeploy
	<u>D</u> escription: Bgot image:	Start the SmartDeploy boot environment (SmartPE)
< <u> </u>	< Pre	vious <u>N</u> ext > <u>S</u> ummary Cancel

5. Check that all the information is correct, then click **Next**.

1	Create Task Sequ	uence Wizard
Task Sequence In	formation	
Create New Task Sequence Task Sequence Information Summary	Specify task sequence in	formation
Progress Completion	<u>I</u> ask sequence name: <u>D</u> escription:	SmartDeploy Start the SmartDeploy boot environment (SmartPE)
	B <u>o</u> ot image:	SmatPE Bowse
< III >	< <u>P</u> re	vious <u>Next > S</u> ummary Cancel

6. From the **Summary** page, review the information, and then click **Next**.

12	Create Task Sequence Wizard	x
Summary		
Create New Task Sequence Task Sequence Informatio	Confirm the settings	
Summary Progress Completion	Details: Verify the following task sequence details. Create a new task sequence 1000 mage: SmartPely 2001 mage: SmartPE 2001 mage: SmartPE <	
< III >	<u>Previous</u> <u>Next</u> <u>Summary</u> Cancel	

7. Wait for the process to complete, and then click **Close**.

2	Create Task Sequence Media Wizard	x
Completion		
Select Media Type Media Management Media Type Security Boot Image Curtomization	The Create Task Sequence Media Wizard completed successfully Details:	
Customization Summary Progress Completion	 Success: Task sequence media information Media type: C/D/DV bet Output path: C/SmartPE-SCCM.iso Allow unattended operating system deployment: No Protect media with password: No User device affinity: Do not allow user device affinity Create self signed certificate: Yes Start time: 11/3/2014 1:57:31 PM Support unknown computers: Yes Boot media management: Site-based communication Management Point(s): http://SCCM2012R2.cooper.test Prestart command: No Distribution point(s): SCCM2012R2.COOPER.TEST Total size of media content, MB: 234 SHA256 checksums: C/SmartPE-SCCM.iso FFF4A57C64EC36B12F2637F714095A327DED26E3CC104CE598A8D9160B568835 	
	To exit the wizard, click Close.	
	<pre>< Previous Next > Summary Close</pre>	R

8. Now that the task is created, we need to give it a function. To successfully start SmartPE, we need to launch the SDShell, as this has been disabled when the boot image was imported into Configuration Manager.

To Launch SDShell, create a new VBScript in your **\RemoteInstall\SMSImages** folder. This location may vary depending on the configuration of your distribution point.



9. Browse to the folder, right-click and select New > Text Document

Recycle Bin										
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- 10. Name the new document SmartDeploy.vbs, and click **Yes** to change the extension type.
- 11. Right-click SmartDeploy.vbs and then click **Edit**.
- 12. Enter the following code into the editor, and then close the file. Be sure to save your changes. (click here to download .txt file)



13. Navigate back to the Configuration Manager Console, right-click the previously created task sequence, and click **Edit**.

Folder Tools System	n Center 2012 R2 Co	nfiguration Manager (C	onnected to SAC - co	ooper.test)
Home Folder				
Create Task Sequence Sequence Media Create	sk Saved Ed Searches •	 Tenable Copy Disable Refresh Export Delete Task Sequence 	Deploy Distribute Cre Content (tate Prestaged Move Set
← → ▼ 🖺 \ ► Software Librar	ry 🕨 Overview 🕨 Op	perating Systems 🕨 Task Se	equences	
Software Library <	Task Sequences 1 items	5		
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Application Management	Icon Name	Descr	iption Package	ID Date Created
🕨 🚞 Software Updates	SmartDeploy	A		°B 10/28/2014 4
🖌 🚞 Operating Systems		Edit	<u>↓</u>	
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Boot Images		📢 Refresh	F5	
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Assets and Compliance	Name:	Set security scopes		- P
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14. From the Task Sequence Editor select Add > General > Connect to Network Folder.

ome	Folde	er									
+	i				SmartDeploy Task	Sequence	e Editor		- • ×		
Cre	ate Task	Add	Remove	et G	2					ity	Proper
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istratio	on						OK	Cancel	Apply		
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15. If desired, change the Name and Description of the task. For the Path field, enter the path to the Distribution Point that contains your \RemoteInstall\SMSImages share. Select a drive letter for this mapped drive, and add account information to connect to the share. This account should have Read/Execute permissions to the share.

1	SmartDeploy Task Sequence Editor	x
Create Task	Select Folder	ity Pro
Sequence Mec Create		Proj
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ary	Name Date modified Type	
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brary				~	
view		Enter the information	to connect a network folder.		Search
plication Manage		Path:	\\127.0.0.1\c\$\RemoteInstall\SMSImages	Browse	
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Drivers		Account:	Domain Viccount	Set	
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inistration			OK Cancel	Apply	

16. From the Task Sequence Editor select Add > General > Run Command Line.

Home		SmartDeploy Ta	isk Sequence Editor
1	Add - Remove	Properties Options	
sk Create	New Group	Ider Type:	Connect to Network Folder
Sequence	General +	Run Command Line	Connect to Network Folder
r 12 \ orary view plication Ma ftware Upda erating Syst	Disks + User State + Images + Drivers + Settings +	Run PowerShell Script Set Dynamic Variables Install Application Install Package Install Software Updates Join Domain or Workgroup Connect to Network Folder Restart Computer	Connects to file share to execute SmatDeploy.vbs
)rivers Diver Packag Diperating Sy Diperating Sy Boot Images Task Sequen Virtual Hard		Set Task Sequence Variable Check Readiness	R
s and Com vare Library			

- 17. If desired, change the Name and Description of the task. Change the Command line field to read CMD /c z:\SmartDeploy.vbs (where Z: is the drive that was mapped in previous steps).
- 18. Click **OK** to save changes and exit.

1	No	SmartDeploy Task Sequence Editor	Í
sk Create Task Sequence Mee Create ECreate Create Create Sequence Mee Create Sequence Mee Sequences Driver Driver Driver Driver Driver Driver Driver Driver Driver Driver Soperating System Operating System Operating System Soperating Syst	Add • Remove 3 C.	SmartDeploy Task Sequence Editor Properties Optiona Type: Run Command Line Name: Stat SmartPE Description:	ity Pro
ninistration		OK Cancel Apply	

Deploy to Target Collection

This section guides you through the process of deploying the previously created task sequence to a collection of computers. In this example, we use the All Unknown Computers collection, but this can be changed to meet your needs.

1. From the Configuration Manager Console, navigate to **Software Library > Operating Systems > Task Sequences**.

Folder Tools System	n Center 2012 R	2 Configuration Mana	ger (Connected to	SAC - cooper.test)	
Home Folder Folder Create Task Create Task Import Tas Sequence Media Sequence Create	k Saved Searches - Search	Edit	efresh elete Deploy Distr Cor	Tibute Create Prestaged Itent Content File Deployment	Mo
Software Library	Task Sequences 1	items	Task Sequences		
Green Control of the second seco	Icon Name	eploy	Description Start the SmartDe	Package ID SAC0000B	Dat 10
 Operating Systems Drivers Driver Packages Operating System Images Operating System Installers Boot Images Task Sequences 			lş.		
Virtual Hard Disks Assets and Compliance	SmartDeploy Summary	SmartDenlov			

2. In the middle pane, right-click the previously created Task Sequence, then select **Deploy**.

Folder Tools System	n Center 2012 R2	Configuration Mana	iger (Connected t	o SAC - cooper.test)		
Home Folder						
Create Task Sequence Media	k Saved Searches •	Image: A constraint of the second	opy efresh lelete Deploy Dis Ca	stribute Create Prestaged Content File	Move	Set Set Scot
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 Software Updates Operating Systems Drivers Driver Packages Operating System Images Operating System Installers Boot Images Task Sequences Virtual Hard Disks 	SmartDept	yu Edit Enable Disable Export Copy Refresh ∑ Delete Deloy Distribute Conte	Start the SmartDe		10/28/2	2014 4:06
Assets and Compliance	SmartDeploy Summary Name: Description:	Create Prestaged Move Set Security Scop	d Content File	nartPE)	F	lelated O
Monitoring	Package ID: Package Type:	SAC0000B 4				

3. On the **General** screen of the Deploy Software Wizard, click the **Browse** button next to the Collection field.

*	Deploy Software Wizard
General	
General Deployment Settings Scheduling	Specify general information for this deployment
User Experience Alerts	Task sequence: SmartDeploy. Browse
Distribution Points	Collection: Browse
Summary Progress	Use default distribution point groups associated to this collection
Completion	Automatically distribute content for dependencies
	Comments (optional):
	v
	< Previous Next > Summary Cancel

4. In the Select Collection window, click All Unknown Computers and click OK.

•		Deploy Software Wizard		
R	General			
Ge		Select Collection	×	
De	Device Collections	✓ Filter	2	
Su Pro Co	Root	Name All Dobile Devices All Mobile Devices All Systems All Unknown Computers	Member Count 0 3 2	
		[OK Cancel	11
		< Previous Next >	Summary Cancel	

5. On the **Deployment Settings** of the wizard, select **Install** in the Action field. Set purpose to **Available**. Select **Only Media and PXE** in the final field and click **Next**.

*	Deploy Software Wizard
Deployment Sett	tings
General Deployment Settings Scheduling User Experience Alerts Distribution Points Summary Progress Completion	Specify settings to control how this software is deployed Action: Install Purpose: Available Purpose: Available Require administrator approval if users request this application Specify whether to make this task sequence available to Configuration Manager clients, and whether it is available to run when you deploy an operating system by using boot media, prestaged media, or PXE.
	Make available to the following: Only media and PXE
>	< <u>P</u> revious <u>Next</u> <u>Summary</u> Cancel

6. On the **Scheduling** page, leave the default setting and click **Next**.

<u>م</u>	Deploy Software Wizard	x
Scheduling		
General Deployment Settings	Specify the schedule for this deployment	
User Experience Alerts	This program will be available as soon as it has been distributed to the content servers unless it is scheduled for a later time below. For required applications, specify the assignment schedule.	
Summany	Calendula misar this dealerment will be seen a surfactory	
Progress		
Completion		
	Schedule when this deployment will expire:	
1	11/ 3/2014 ■ - 1:25 PM 🔄 🗋 UIC	
1	Assignment schedule: New Edit Delete	
	There are no items to show in this view.	
	Rerun behavior: Always rerun program v	
2	< Previous Next > 2 Summary Cancel	

7. On the User Experience page, leave the default settings and click Next.



8. On the Alerts page, configure alert options as desired and click Next.

-	Deploy Software Wizard	x
Alerts		
General Deployment Settings	Specify Configuration Manager and Operations Manager alert options	
User Experience	Configuration Manager generates alerts when this task sequence is deployed	
Alerts		
Distribution Points	Threshold for successful deployment	
Summary	Create a deployment alert when the threshold is lower than the following:	
Progress	Percent success: 90	
Completion	After: 11/10/2014 V 1:25 PM	
3	Threshold for failed deployment	
3	Create a deployment alert when the threshold is higher than the following:	
9	Percent failure: 10 🔦	
3		
-		
	< <u>P</u> revious <u>N</u> ext > <u>S</u> ummary Cance	:

9. On the **Distribution Points** page, check options to specify a remote distribution point and to allow clients to use a fallback content location if needed. Click **Next**.

•	Deploy Software Wizard	x
Distribution Poir	its	
General Deployment Settings Scheduling User Experience	Specify how to run the content for this program	
Alerts	Deoloyment options:	
Distribution Points	Download content locally when needed by running task sequence	~
Progress Completion	Clients will always try to get content from the local distribution points. In addition, interaction with remote distribution points can be controlled: 	
	< <u>P</u> revious <u>Next</u> > <u>Summary</u> Canc	el

10. Review settings on the **Confirmation** page, and click **Next**.

٠	Deploy Software Wizard	x
Summary		
General Deployment Settings Scheduling User Experience Alerts Distribution Points Summary Progress Completion	Details: Details: Objective: Objective: Objective: Use default distribution point groups associated to this collection: Disabled Objective: Use default distribution point groups associated to this collection: Disabled Depoyment Settings Pointo: Pointo: Stak sequence deployment option: Only media and PXE Allow clents to use a metered Internet connection to download content: Disabled Schedule when this deployment will become available: Disabled Schedule when this deployment will expire: Disabled	×
	< Previous Next > Summary C	ancel

11. Once the wizard completes successfully, click **Close**.



Booting the Target Device

Assuming the target device is part of the collection that the advertisement was assigned to, you can now boot the target device to SmartPE. From here, you can complete your deployment using the SmartDeploy Enterprise hardware-independent imaging model.

- 1. Boot your target device from the network.
- 2. Wait for the PXE boot to complete, and then click **Next** from the Task Sequence Wizard.

۲ 🗞	ask Sequence Wizard
	Welcome to the Task Sequence Wizard Image: Sequence Seq
< Previous Next > Cancel	

3. Select the SmartDeploy task that was created in the previous section, and then click **Next** to execute.



4. Once the task runs, the Welcome to SmartDeploy Enterprise screen opens.



5. From the Welcome to SmartDeploy Enterprise screen, you can deploy your images from the Z: drive and save a SmartDeploy.xml answer file to the Z: drive to automate future deployments. When used with a mandatory task, SmartDeploy.xml can give you a zero-touch deployment.

Summary

This document has illustrated the basic procedure to integrate SmartDeploy Enterprise and System Center Configuration Manager. Once SmartDeploy and SCCM have been integrated, you can take advantage of the time and cost-saving features of SmartDeploy to deploy images from the System Center Configuration Manager console. Using SmartDeploy reduces the overall complexity of operating system deployment within System Center Configuration Manager, while providing the time-saving benefits of SmartDeploy, such as Platform Packs.

More Information

The following links provide further information:

- SmartDeploy Enterprise User's Guide
- SmartDeploy Website
- DeployCentral User Forum
- System Center Configuration Manager Product Documentation