



# GHOST SOLUTION SUITE 3.1 LAUNCH WEBCAST

**David Evans**

Product Management

**Rob Barker**

Technical Education

# ENDPOINT MANAGEMENT NEWS

- Several recent Product Releases
  - IT Management Suite 8.0
  - Ghost Solution Suite 3.1
  - ServiceDesk 8.0
- [ITMS 8.0 Launch Webcast](#)
- [ITMS 8.0 Videos](#)
- [Endpoint Management User Groups](#)

**Also visit**

[go.symantec.com/itms8](https://go.symantec.com/itms8)



# PRODUCT RECAP

# New Streamlined Deployment Portfolio

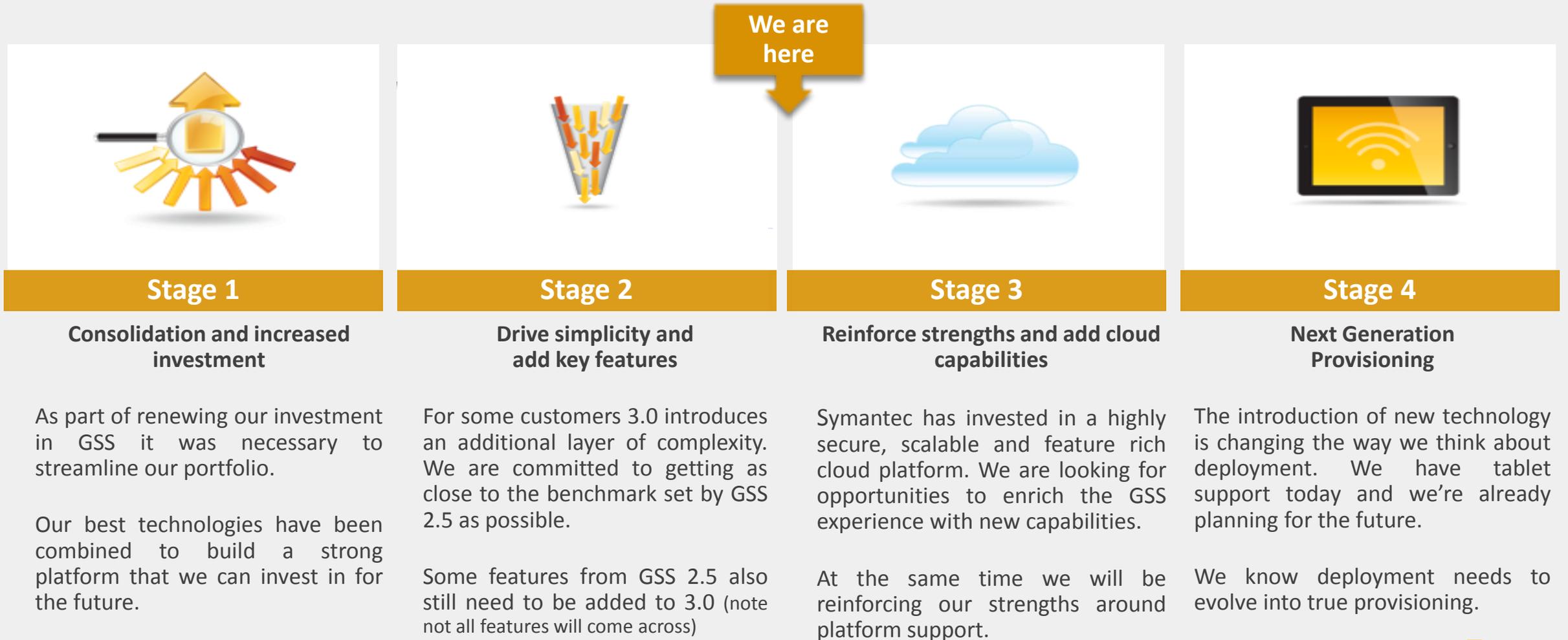
## Deployment Solution 8.0

- Highly scalable, web console
- Integrated with ITMS
- Distributed infrastructure capabilities
- Detailed security model
- In-built support for Mac imaging

## Ghost Solution Suite 3.x

- Rich best of breed imaging and provisioning tool
- Combines core technology of GSS 2.5 with the powerful UI in DS 6.9
- Fast Win32 console, real-time feedback
- Thin client support
- Rich Administrator SDK

# Multi-phase journey





# LICENSING AND PROMOTIONS

# Licensing Information

## Deployment Solution 6.9

- Customers in the past have had access to DS 6.9 through DS/CMS/SMS/ITMS 7.x licensing
- This entitlement ended in March 2016 with the release of DS/CMS/SMS/ITMS 8.0
- Customers wanting to use GSS 3.x need to move to GSS licensing

## Ghost Solution Suite 3.x

- Customers with maintenance entitled to upgrade for free
- Available through the Symantec e-store
- GSS 2.5 licenses are not forwards compatible

# Transition Paths to GSS 3.x

Customer Owns	Maintenance	Customer Should Buy
GSS 2.5	Current	No purchase necessary. Upgrade to GSS 3.x is part of the entitlement.
GSS 2.5	Expired	GSS 3.x Expired Maintenance Promo SKU. This upgrades the customer to GSS 3.x with one year of maintenance.

Customer Owns	Customer Wants to Use	Customer Should Buy
DS 7.x standalone	DS 8.0 only	DS 8.0 renewal
	GSS 3.x	GSS 3.x at the same price as DS 8.0 renewal
	Both DS 8.0 and GSS 3.x	DS 8.0 renewal and GSS 3.x. GSS can be discounted so the combined total cost is no higher than the DS 8.0 renewal. <sup>2</sup>
CMS/SMS/ITMS	DS 8.0 only	CMS/SMS/ITMS renewal
	GSS 3.x	CMS/SMS/ITMS renewal and GSS 3.x. GSS can be discounted so that the combined total cost is no higher than the suite renewal. <sup>2</sup>
	Both DS 8.0 and GSS 3.x	CMS/SMS/ITMS renewal and GSS 3.x. GSS can be discounted so that the combined cost is no higher than the suite renewal. <sup>2</sup>

Note:

1. Discounts available for customers with current or expired maintenance
2. This special discount is only available for the first renewal cycle. Customers who want to stay current on maintenance for GSS 3.x and DS 8.0, will need to pay for both renewals beginning with the second renewal cycle.



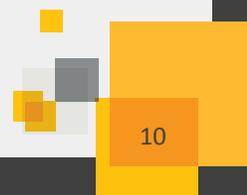
# GSS 3.1 INSTALL EXPERIENCE

## Installation experience notes

- **In place upgrade** from GSS 3.0 and DS 6.9 SP6
- **Licenses are not forwards or backwards compatible**, so make sure you have a 3.1 license before you upgrade. If you are current on maintenance the license should already have been emailed to you. If you don't have it contact customer care: [https://support.symantec.com/en\\_US/contact-support.html](https://support.symantec.com/en_US/contact-support.html)

We are looking at how to improve this experience.

- **New installer technology** that packages the files differently. This limits some options to individually install certain components. We are also looking at this.





## NEW FEATURES IN GSS 3.1

# Partition based imaging/Image location improvements

## Features/Benefits

Adds the capability to **create and deploy an image stored on a local drive**. This ensures fast creation and deployment of images and enables local storage to be utilized.

**Supports any partition on any local drive**, so you can easily create and use a backup disk or partition.

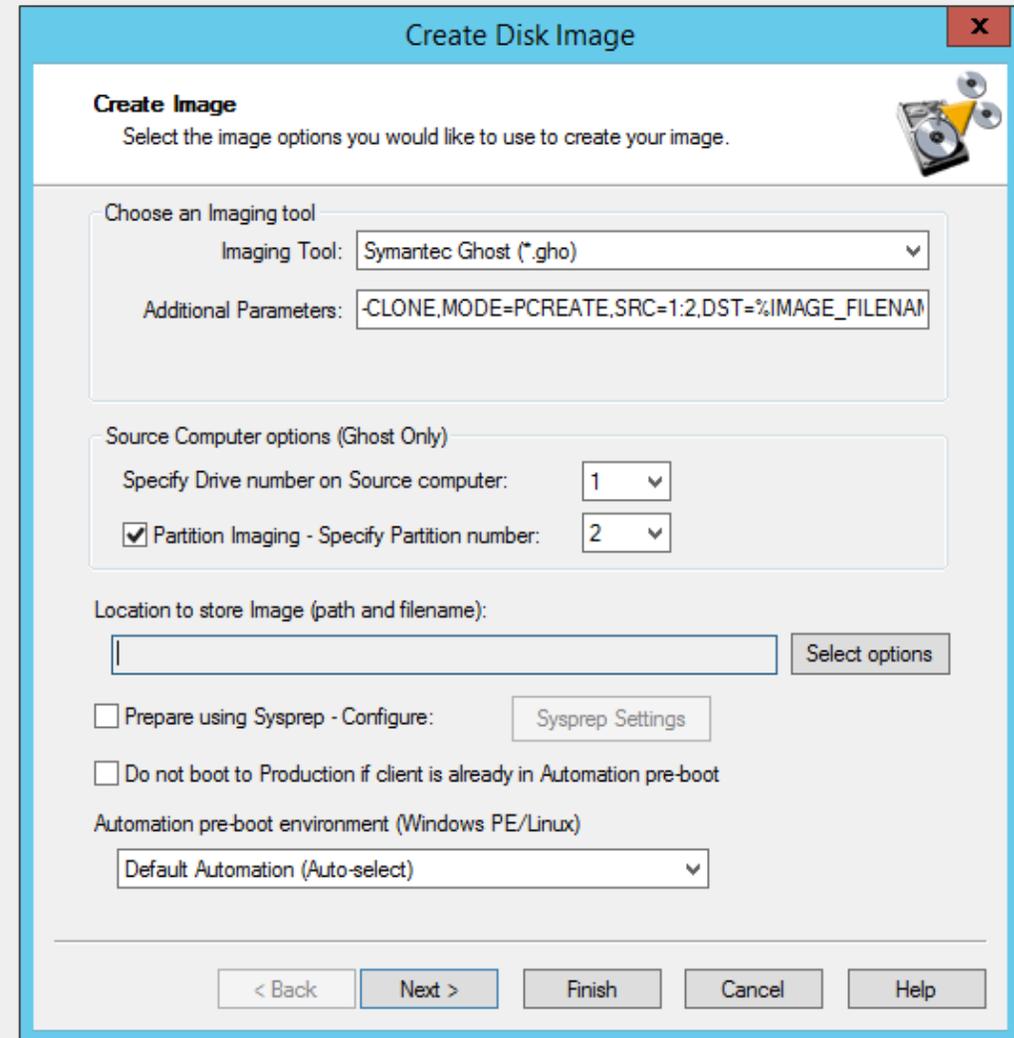
**Imaging can be entirely self contained** to the device, so a mapped drive to the GSS server is not required.

**Allows for easy backup and restore** of devices, Ghost is widely used for local backup purposes and this restores this capability.

Also **allows any mapped drive** in automation to be used. This helps support image distribution using tools such as Microsoft DFS/DFSR

## Create image – Partition imaging

- Local Partition Imaging support added to the Create Image dialog.
- Select specific drive and partition from source device



**Create Image**  
Select the image options you would like to use to create your image.

Choose an Imaging tool  
Imaging Tool: Symantec Ghost (\*.gho)  
Additional Parameters: -CLONE,MODE=PCREATE,SRC=1:2,DST=%IMAGE\_FILENAME

Source Computer options (Ghost Only)  
Specify Drive number on Source computer: 1  
 Partition Imaging - Specify Partition number: 2

Location to store Image (path and filename):  
[Empty text box] [Select options]

Prepare using Sysprep - Configure: [Sysprep Settings]

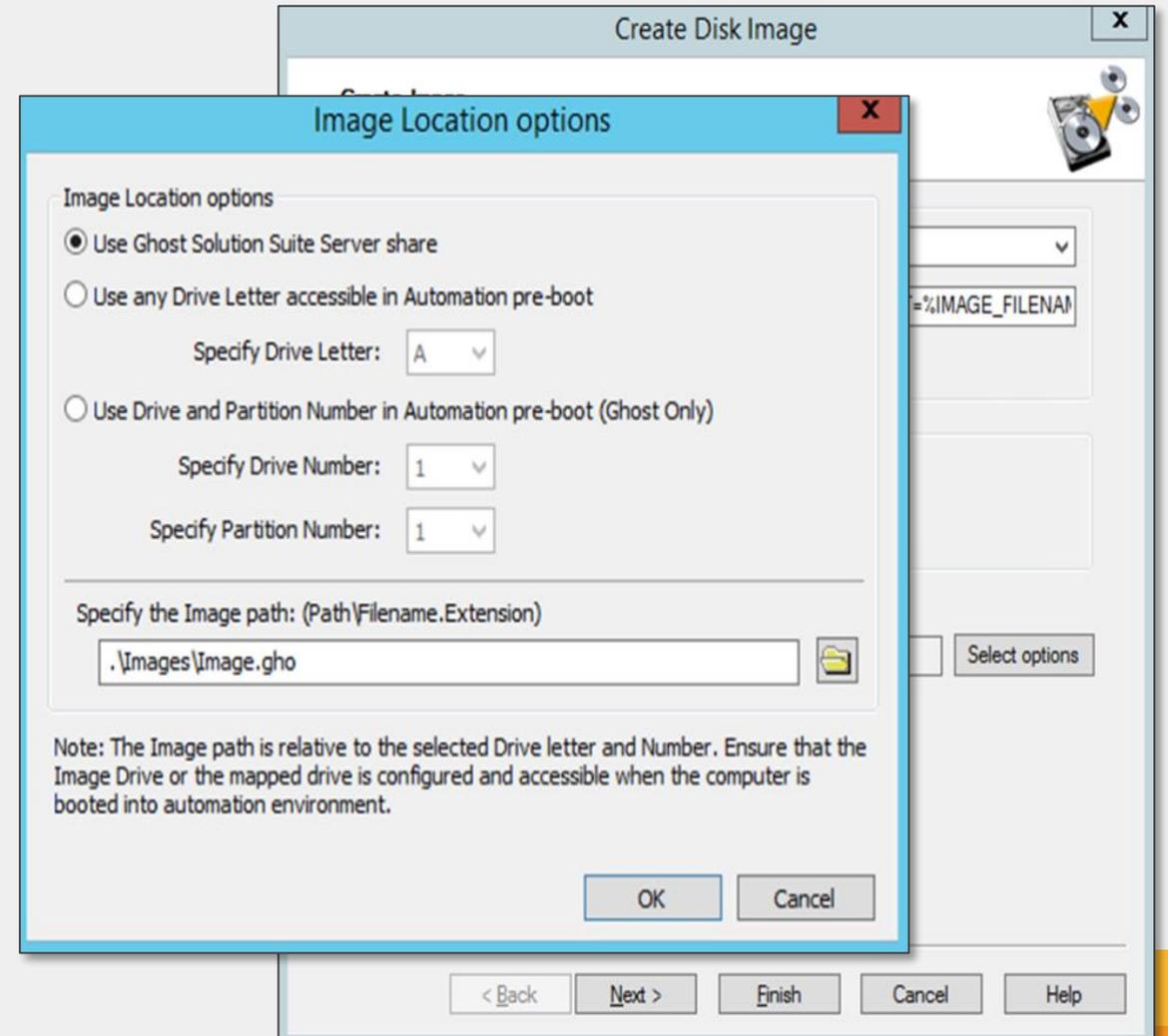
Do not boot to Production if client is already in Automation pre-boot

Automation pre-boot environment (Windows PE/Linux)  
Default Automation (Auto-select)

< Back   Next >   Finish   Cancel   Help

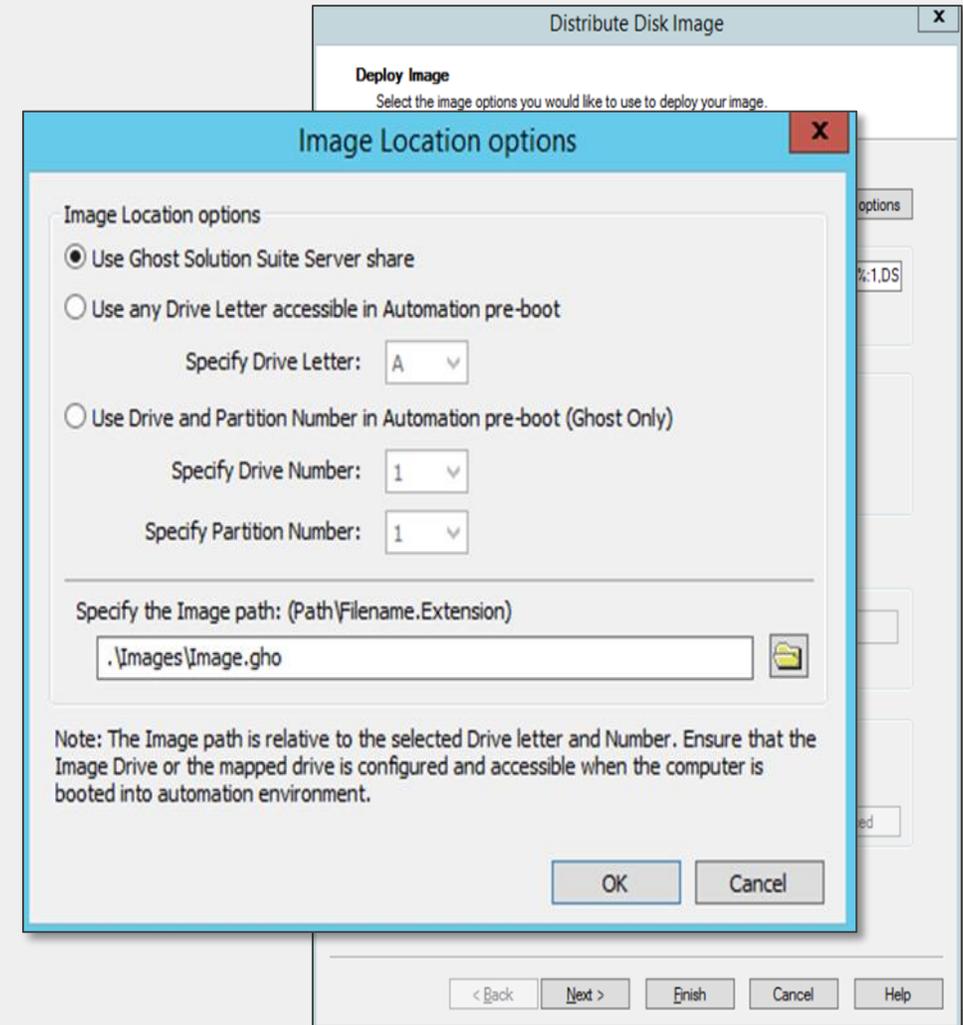
# Create image - Save image to different locations

- The image can now be saved on
  - GSS Share
  - Drive letter accessible on client machine in automation preboot
  - Drive Number and Partition number accessible on client machine in automation preboot



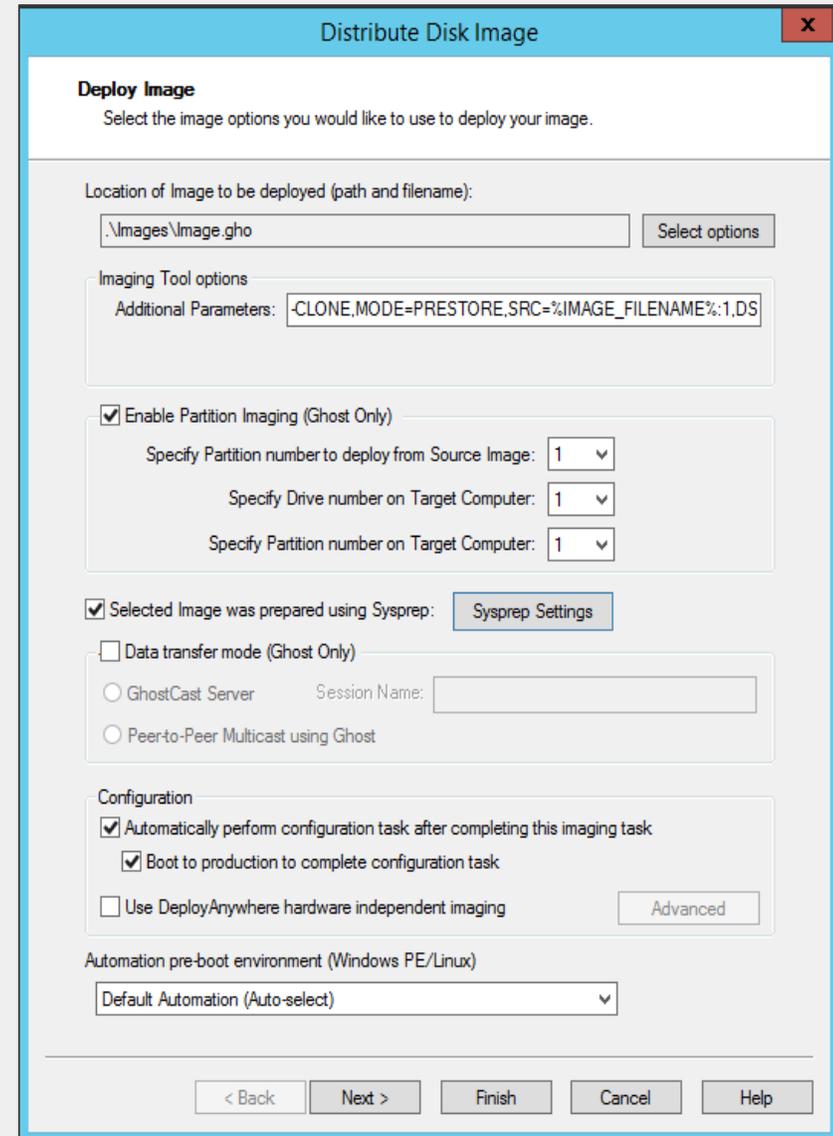
# Distribute Image – Use Image from Different locations

- An Image can be selected as the source from the following locations:
  - GSS Share
  - Drive letter accessible from Automation preboot
  - Driver number and Partition number accessible from Automation preboot
- Supports local backup, restore and recovery as image can be stored on a local partition.
- Any drive can be mapped in automation giving complete flexibility for storing the image.



# Distribute Image – Partition imaging

- Local Partition Imaging support added to the Distribute Image dialog.
- Individually select partition from source image
- Deploy image to a specific drive and partition



**Distribute Disk Image** [X]

**Deploy Image**  
Select the image options you would like to use to deploy your image.

Location of Image to be deployed (path and filename):  
.\Images\Image.gho [Select options]

Imaging Tool options  
Additional Parameters: -CLONE,MODE=PRESTORE,SRC=%IMAGE\_FILENAME%.1,DS

Enable Partition Imaging (Ghost Only)  
Specify Partition number to deploy from Source Image: 1  
Specify Drive number on Target Computer: 1  
Specify Partition number on Target Computer: 1

Selected Image was prepared using Sysprep: [Sysprep Settings]

Data transfer mode (Ghost Only)  
 GhostCast Server Session Name: [ ]  
 Peer-to-Peer Multicast using Ghost

Configuration  
 Automatically perform configuration task after completing this imaging task  
 Boot to production to complete configuration task  
 Use DeployAnywhere hardware independent imaging [Advanced]

Automation pre-boot environment (Windows PE/Linux)  
Default Automation (Auto-select) [v]

< Back Next > Finish Cancel Help

# Automation folders

## Features/Benefits

**Replaces Automation partitions** which are now removed.

**Creates a folder on the local machine and installs automation files.** The machine can then boot into automation directly from the folder. No need for PXE to do re-imaging.

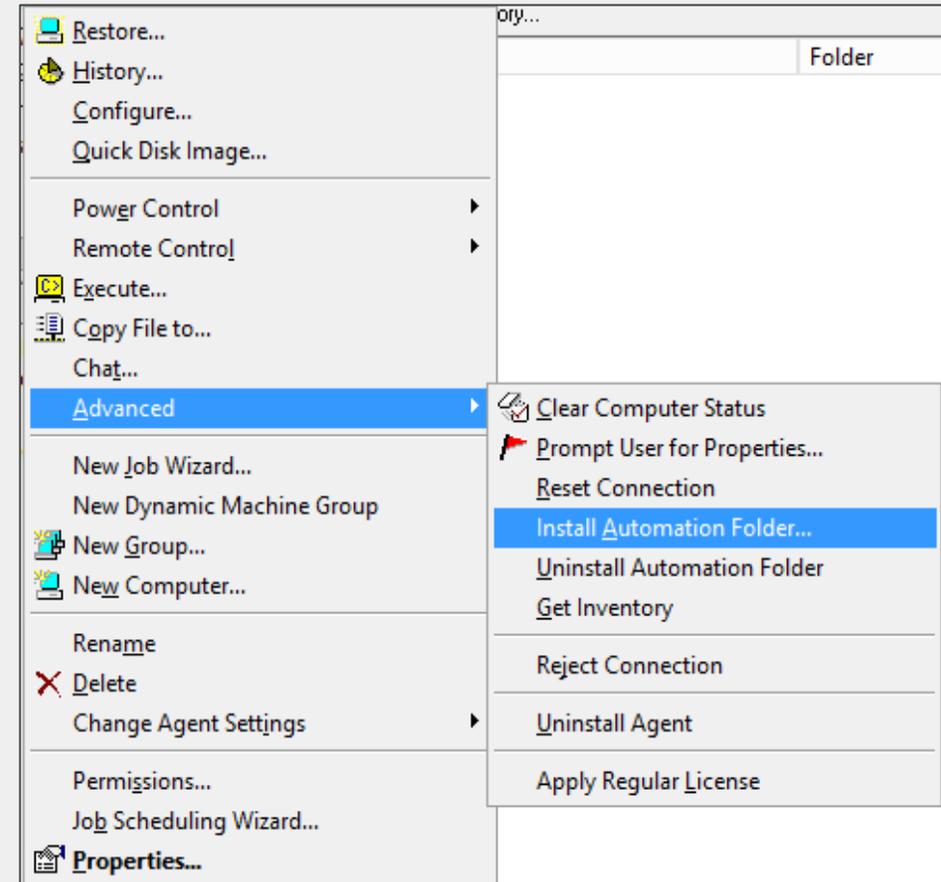
**Supports UEFI**

**High performance** compared to Automation Partition creation

**Configuration changes are universal** and more easily replicated out to the device using right click option.

# Automation Folder Support

- Automation Folder support has been introduced
  - Supports UEFI
  - Available as right click option
  - Huge performance improvements over Automation Partition
  - Configuration is now universal, not per machine
  - Change in configuration creates a new installer package automatically



# Multiple versions of WinPE/WinPE 10 support/Linux Kernel update

## Features/Benefits

**LinuxPE, WinPE 3.1, 4.0, 5.x and 10** are supported giving you flexibility to support new and old hardware.

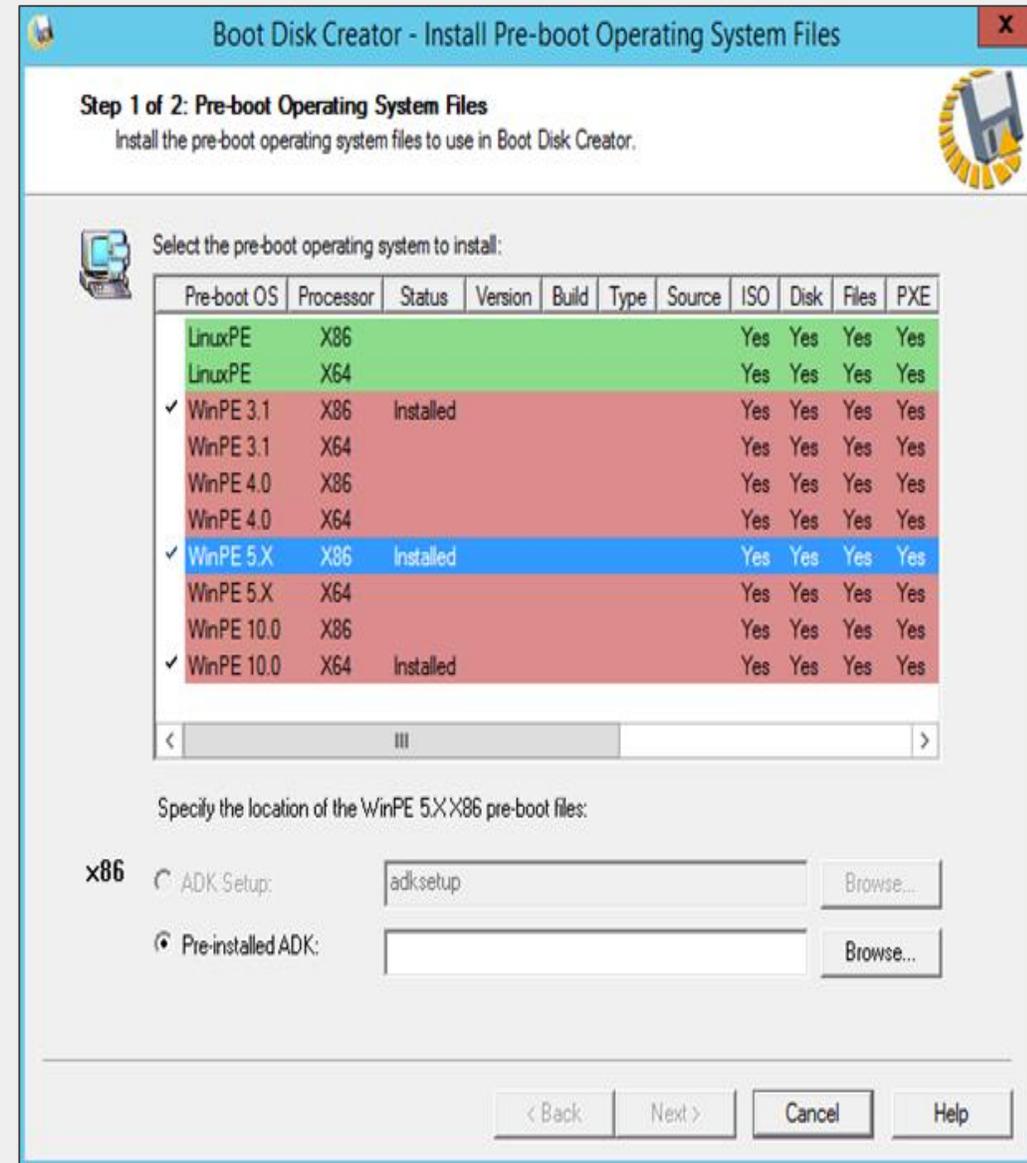
Boot images for all versions can **exist simultaneously**.

**WinPE 10 supported in the console BDC** (update to the Ghost tools coming soon)

**New Linux Kernel** adds new drivers

# Multiple WinPE Support

- LinuxPE, WinPE 3.1, 4.0, 5.x and 10.0 are supported - All of them can co-exist
- Different configurations can be created and used for Automation Folder package creation
- The ability to install ADK from the BDC has been discontinued.
  - Moving forward, the Pre-installed ADK option will be available to specify the path of already installed ADK.



# UI simplification/Other improvements

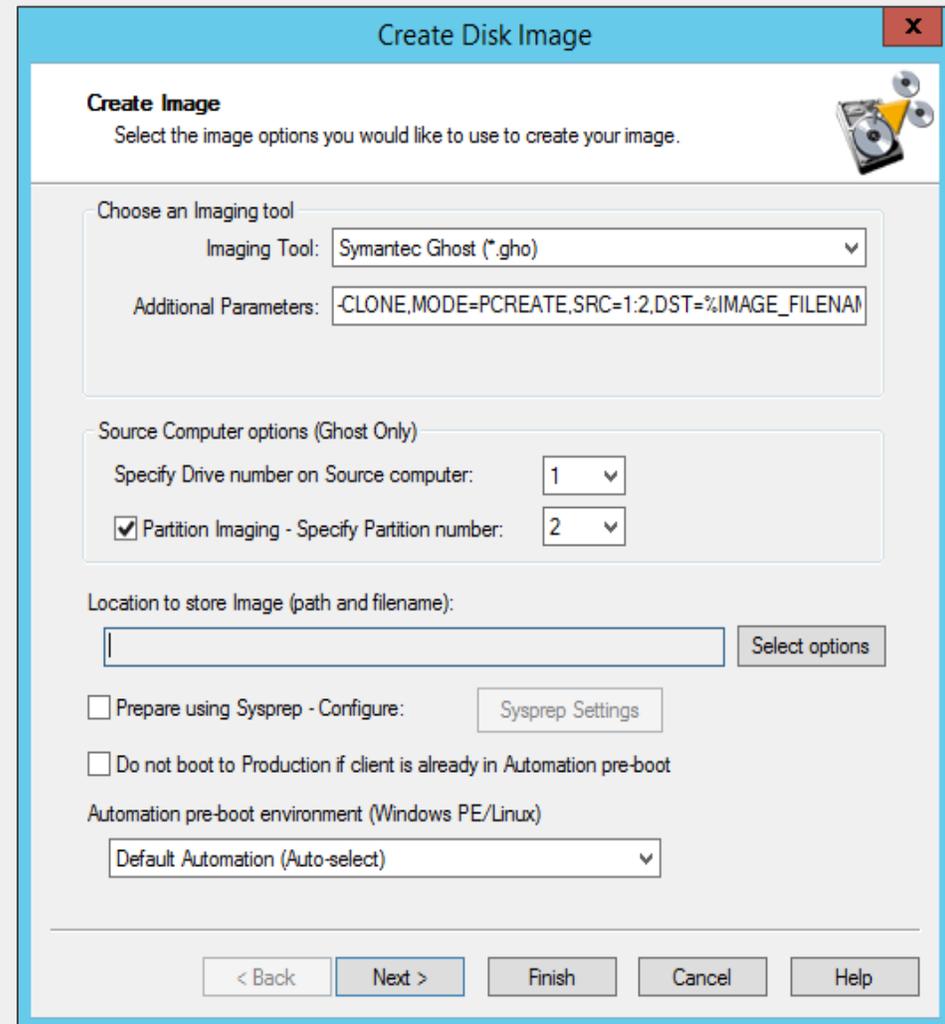
## Features/Benefits

As the number of features increases we've taken some steps to keep the **UI simple and easy to use**

We've also **fixed an issue** created by changes to Sysprep in Windows 10. New credential dialogue added.

## Create image – UI simplification

- Realignment of controls to make the screen smaller so that it fits in with low resolution as well.
- The Image file selection has been moved to a separate dialog



**Create Disk Image** [X]

**Create Image**  
Select the image options you would like to use to create your image.

Choose an Imaging tool  
Imaging Tool: Symantec Ghost (\*.gho) [v]  
Additional Parameters: -CLONE,MODE=PCREATE,SRC=1:2,DST=%IMAGE\_FILENAM

Source Computer options (Ghost Only)  
Specify Drive number on Source computer: 1 [v]  
 Partition Imaging - Specify Partition number: 2 [v]

Location to store Image (path and filename):  
[ ] [Select options]

Prepare using Sysprep - Configure: [Sysprep Settings]

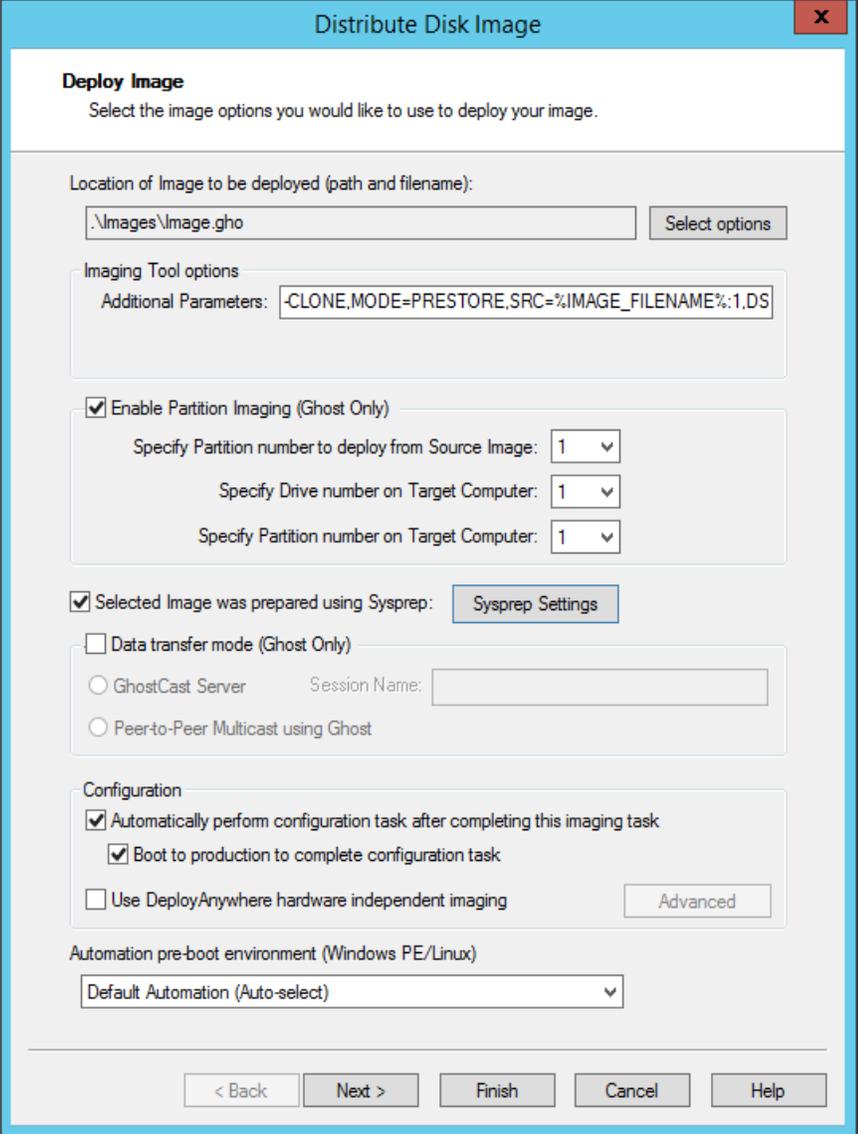
Do not boot to Production if client is already in Automation pre-boot

Automation pre-boot environment (Windows PE/Linux)  
Default Automation (Auto-select) [v]

< Back [Next >] Finish Cancel Help

## Distribute Image – UI simplification

- Realignment of controls to make the screen smaller so that it fits in with low resolution as well.
- The Image file selection has been moved to a separate dialog



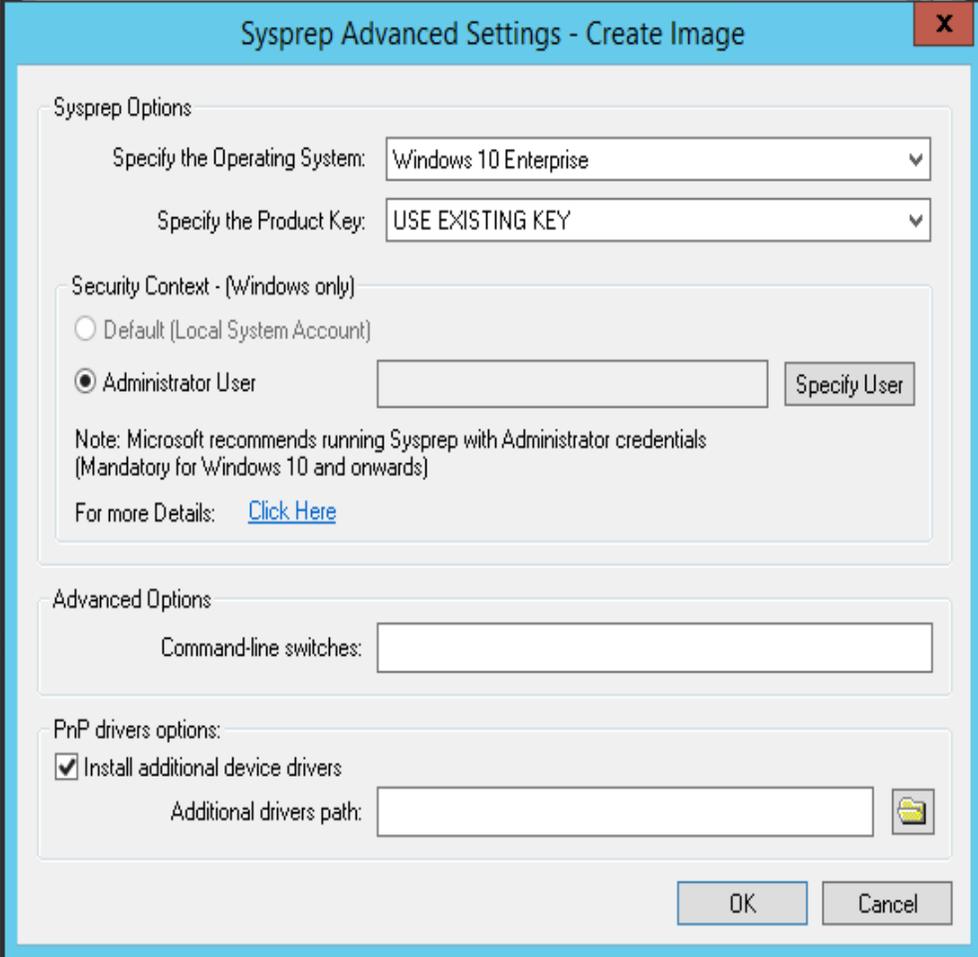
The screenshot shows a Windows-style dialog box titled "Distribute Disk Image". The main heading is "Deploy Image" with a sub-instruction: "Select the image options you would like to use to deploy your image." The dialog is organized into several sections:

- Location of Image to be deployed (path and filename):** A text box contains ".\Images\Image.gho" and a "Select options" button is to its right.
- Imaging Tool options:** A text box for "Additional Parameters:" contains "-CLONE,MODE=PRESTORE,SRC=%IMAGE\_FILENAME%:1,DS".
- Enable Partition Imaging (Ghost Only):** This section is checked. It includes three dropdown menus: "Specify Partition number to deploy from Source Image:" (set to 1), "Specify Drive number on Target Computer:" (set to 1), and "Specify Partition number on Target Computer:" (set to 1).
- Selected Image was prepared using Sysprep:** This is checked, with a "Sysprep Settings" button next to it.
- Data transfer mode (Ghost Only):** This is unchecked. It includes radio buttons for "GhostCast Server" (with a "Session Name:" text box) and "Peer-to-Peer Multicast using Ghost".
- Configuration:** This section contains three checkboxes: "Automatically perform configuration task after completing this imaging task" (checked), "Boot to production to complete configuration task" (checked), and "Use DeployAnywhere hardware independent imaging" (unchecked). An "Advanced" button is located to the right of the last checkbox.
- Automation pre-boot environment (Windows PE/Linux):** A dropdown menu is set to "Default Automation (Auto-select)".

At the bottom of the dialog, there are five buttons: "< Back", "Next >", "Finish", "Cancel", and "Help".

## Create Image – Sysprep Issue

- Microsoft recommends running Sysprep in Administrator context.
- The sysprep settings have been changed to accept administrator credentials.
- Old tasks will continue to run through Local System account but Windows 10 onwards Administrator credentials are a must.



The screenshot shows the 'Sysprep Advanced Settings - Create Image' dialog box. It is divided into three main sections: 'Sysprep Options', 'Advanced Options', and 'PnP drivers options'. In the 'Sysprep Options' section, 'Specify the Operating System' is set to 'Windows 10 Enterprise' and 'Specify the Product Key' is set to 'USE EXISTING KEY'. Under 'Security Context - (Windows only)', the 'Administrator User' radio button is selected, and there is a 'Specify User' button next to an empty text field. A note below states: 'Note: Microsoft recommends running Sysprep with Administrator credentials (Mandatory for Windows 10 and onwards)'. A link 'Click Here' is provided for more details. The 'Advanced Options' section has a 'Command-line switches' text box. The 'PnP drivers options' section has a checked checkbox for 'Install additional device drivers' and an 'Additional drivers path' text box with a folder icon. At the bottom right, there are 'OK' and 'Cancel' buttons.

# GSS Administrator Software Development Kit

## Features/Benefits

Taken from Deployment Solution 6.9 we now have a **rich ASDK** that allows many actions to be automated such as job scheduling.

Previously we provided limited support during upgrades to GSS 3.0 but were restricted to .NET 1.1 (so only Windows Server 2008). Now we have an update.

ASDK recompiled using a **new version of .NET Framework**

Installs on top of a **fresh GSS 3.1 server install**

Supports **Windows Server 2012 R2**



DEMO

## Resources

- [eLearning](#)
- [GSS 3.1 Data Sheet](#)
- [How-to Webcast Series](#)
- [How-to Videos](#)
- [Installation and Upgrade Guide](#)
- [GSS 3.1 Product Documentation](#)
- [Download 30 Day Free Trial](#)
- [Buy GSS 3.1](#)

**Also visit**  
[www.ghost.com](http://www.ghost.com)



# Q&A



**THANK YOU**