



PRCN09

## Vista Deep Dive Session 3 – Vista Deployment

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## Session Objectives And Agenda

Business Desktop Deployment

Automating Installs

Using and Manipulating WIM files

Windows PE

Question and Answers

Office 2007 Deployment

## Business Desktop Deployment

- What was BDD?
  - Guidelines
  - Scripts
  - Documentation



## Business Desktop Deployment 2.6



## Business Desktop Deployment

- What is BDD now?
  - Guidelines
  - Scripts
  - Documentation
  - AND – BDD Workbench

The logo features a stylized 'DEMO' in large, bold, blue letters. To the left of the 'D' is a small graphic of five colored dots (red, yellow, green, blue, purple) arranged in a semi-circle. Below 'DEMO' is the text 'Business Desktop Deployment 2007' in a smaller, white, sans-serif font.

# DEMO

Business Desktop Deployment 2007

## Automating Windows Installation

- Windows Automated Installation Kit
- System Image Manager
- Updating and maintaining images



## Windows Automated Installation Kit

- Plugs into Business Desktop Deployment 2007
- Includes tools such as ImageX, System Image Manager.



## System Image Manager

- New Tool for Windows Vista
- Create, manipulate and update images.
- Update existing images?
  - Inject drivers?
  - Change settings?
  - NO PROBLEMS! ☺





# DEMO

## Creating a new package using SIM

## Updating Existing Images

- Cost of managing and maintaining images.
  - How many images do you have?
  - When a new updates comes out do you apply it?
- Combine System Image Manager combined with ImageX





# DEMO

## Creating an update package with System Image Manager

## Windows Installation

- All Vista release ship as a Sysprep'd image (install.WIM)
- Setup applies (install.WIM) Images, using Unattend answer files (Unattend.XML) for custom installation
- Two ways to "Install" Vista
  - Apply install.WIM and use Unattend.XML to customize setup.EXE
  - Install Vista, configure, capture, and deploy using Vista Imaging tools (ImageX)



## Windows Image Format (WIM)

- File-based Image Format
  - Introduced with SMS 2003 OSD Feature Pack
  - \*Store Multiple Images within one actual file
  - Hardware agnostic
  - Enables compression and single instancing (A technique which allows you to store two or more copies of a file for the space cost of one copy)
  - Service an image offline
  - Install a disk image on partitions of **any** size
  - Use for install and data



 **DEMO**  
ImageX WIM manipulation

## Windows PE

- WinPE is...
  - An operating environment built from Vista components
  - an integrated part of the setup environment for Vista
  - a solution that enables OEMs to build computers in factories
  - a solution that enables ISVs to build deployment, recovery, imaging, and diagnostics applications
  - a customizable product for corporate customers to build deployment applications upon
  - a replacement for DOS boot disk scenarios
- WinPE is not...
  - a embedded operating system
  - a replacement client or server operating system



## Windows PE

- PE 2.0 has...
  - “Hot” (online) Plug n Play support
    - PnP detection used to only happen at boot-time
    - Possible to hot-swap devices (USB keys, etc)
  - Offline / online driver injection
    - Drvload.exe provides complete offline driver injection
      - No more monkeying around with .sif files!
    - Online driver injection
      - Also provided by drvload.exe



## Sequencing for Building WinPE

1. Extract non-prepped PE from a WIM using ImageX
2. Use PEImg to manipulate the PE files
3. Add files to PE (drivers and such)
4. Use ImageX to package PE as WIM
  - Create a CD
  - Boot from WIM
  - Add to WDS
5. Add WIM to CD structure template
6. Use CDImage to create ISO from structure



 **DEMO**  
Building a WinPE install

## Deploying Office 2007

Previous version	2007 Office release
Windows Installer (Msiexec.exe)	Setup program (Setup.exe)
Administrative installation point	Local installation source
One MSI file per product	Multiple MSI files per product
Core English version plus MUI Pack	Language-neutral architecture
Setup.ini file	Config.xml file
Setup command line	Config.xml file
Custom Installation Wizard	Office Customization Tool
Custom Maintenance Wizard	Office Customization Tool
Office Profile Wizard	Group Policy system policies




**Q&A**  
 Questions?

## Related Content

### Instructor-led Labs

CLI-04-ILL Migrating User State  
CLI-01-Business Desktop Deployment

### Hands-on Labs

CLI-01, 02, 03 Deployment Labs

## Resources

### Technical Communities, Webcasts, Blogs, Chats & User Groups

<http://www.microsoft.com/communities/default.aspx>

### Microsoft Learning and Certification

<http://www.microsoft.com/learning/default.aspx>

### Microsoft Developer Network (MSDN) & TechNet

<http://microsoft.com/msdn>  
<http://microsoft.com/technet>

### Trial Software and Virtual Labs

<http://www.microsoft.com/technet/downloads/trials/default.aspx>

### Slide Deck

<http://www.vistapcgyu.net/teched/>



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