

Microsoft®
tech·days
Hong Kong | 2014

MARCH 11-13, 2014

Hong Kong Convention and Exhibition Centre





What's new in Windows 8.1 Deployment?

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Windows 8.1 Timeline

August 2013 – released to manufacturing

Initially not provided to anyone but OEMs, later provided to everyone

For “testing”

New ADK for Windows 8.1 published

October 2013 – general availability

ConfigMgr 2012 R2 and MDT 2013 released to support Windows 8.1 deployment

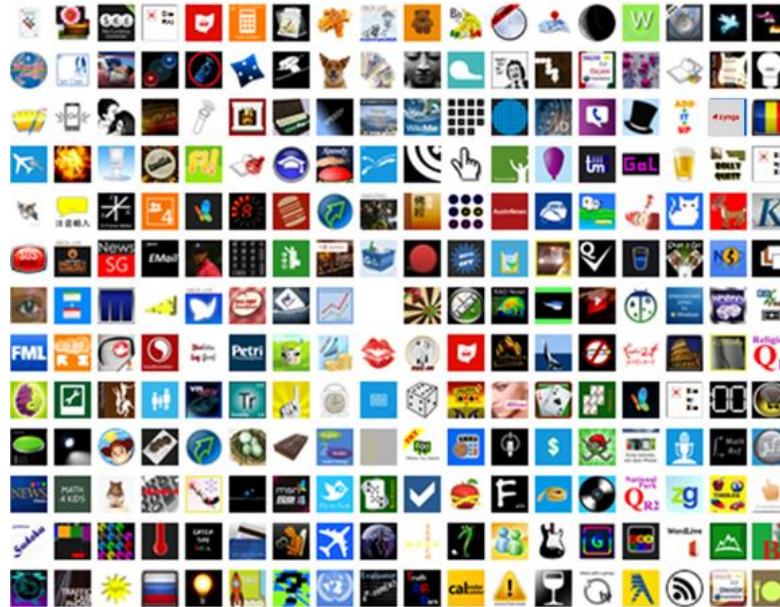
ConfigMgr 2012 SP1 CU3 also supports Windows 8.1 deployment

Spring 2014 – changes coming...

Windows 8.1 Deployment



OS Deployment



App Deployment



Infrastructure
Deployment

Operating system deployment



ADK for Windows 8.1

Windows PE 5.0

- Minor changes
- Automatic scratch space adjustment when not explicitly set (512MB for ≥ 1 GB RAM, 32MB otherwise)
- Support for up to 4TB of RAM with x64 (still 64GB for x86)
- Profiling support removed

USMT 6.3

- Drops support for Windows XP as a source operating system
- Adds support for Office 2013

DISM

- Export compressed recovery image (/Export-Image)
- Cleanup base components when superseded (/StartComponentCleanup /ResetBase)

MDT 2013

Support for new versions

- Adds support for Windows 8.1, Windows Server 2012 R2 deployment
- Supports System Center 2012 Configuration Manager R2
- Requires the new ADK 8.1 release

Minor changes overall

- Full details at <http://blogs.technet.com/b/mniehaus/archive/2013/10/19/mdt-2013-what-s-changed.aspx>

Removes support for old versions

- No longer supports Windows XP and Windows Vista deployment
- No longer supports Configuration Manager 2007 or System Center 2012 Configuration Manager

Continue using MDT 2012 Update 1 for older versions

Configuration Manager

Full support in ConfigMgr 2012 R2

- Adds support for Windows 8.1, Windows Server 2012 R2 deployment
- Requires the new ADK 8.1 release

Support in ConfigMgr 2012 SP1 CU3 as well

- Adds support for Windows 8.1, Windows Server 2012 R2 deployment
- Uses the new Windows PE 6.3 release from the ADK 8.1 release, while continuing to use the ADK for Windows 8 for everything else

Manage with ConfigMgr 2007

- No OS deployment support for Windows 8.1, or any other Windows 8.1-specific functionality

What about Windows XP to Windows 8.1?

Challenges

- USMT 6.3 can't capture state from Windows XP
- ADK 8.1 version of BOOTSECT.EXE does not run on Windows 8.1

Workarounds

- Use USMT 5.0 to capture from Windows XP and USMT 6.3 to restore to Windows 8.1
- Use older BOOTSECT.EXE from the ADK for Windows 8

Processes are documented:

- The ConfigMgr process is described at <http://blogs.technet.com/b/configmgrteam/archive/2013/09/12/how-to-migrate-user-data-from-win-xp-to-win-8-1-with-system-center-2012-r2-configmgr.aspx>
- The MDT 2013 process (including a new script) is described at <http://blogs.technet.com/b/mniehaus/archive/2014/01/09/migrating-from-windows-xp-to-windows-8-1-using-mdt-2013.aspx>

Demo

Windows XP to Windows 8.1 Refresh



What about Windows 8 to Windows 8.1?

We want customers to update

- All Windows 8 customers should deploy Windows 8.1
- Hardware, app, and driver compatibility are excellent

With increased frequency, we need the process to be easier

- In-place update process will be the preferred mechanism to enable customers to keep up
- All Windows 8 customers are encouraged to use in-place update

Microsoft IT case study:

- Published at <http://technet.microsoft.com/en-us/library/dn505731.aspx>
- Additional details, including wrapper PowerShell scripts for ConfigMgr, to be published soon

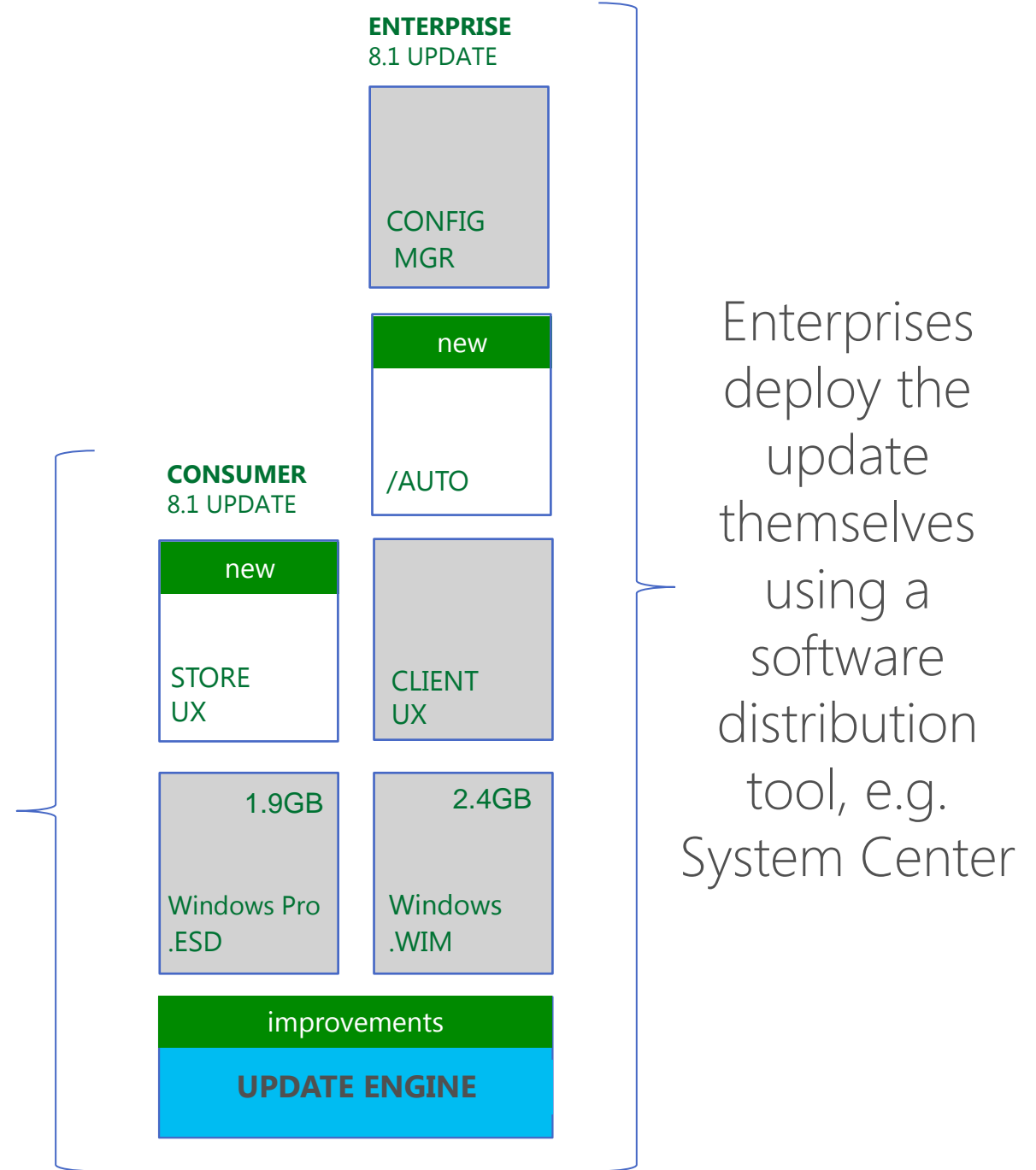
Complications:

- Third-party disk encryption
- Third-party firewalls and VPN software
- Driver compatibility

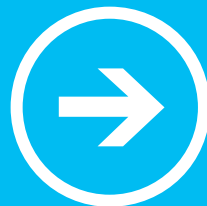
One update engine, two user experiences



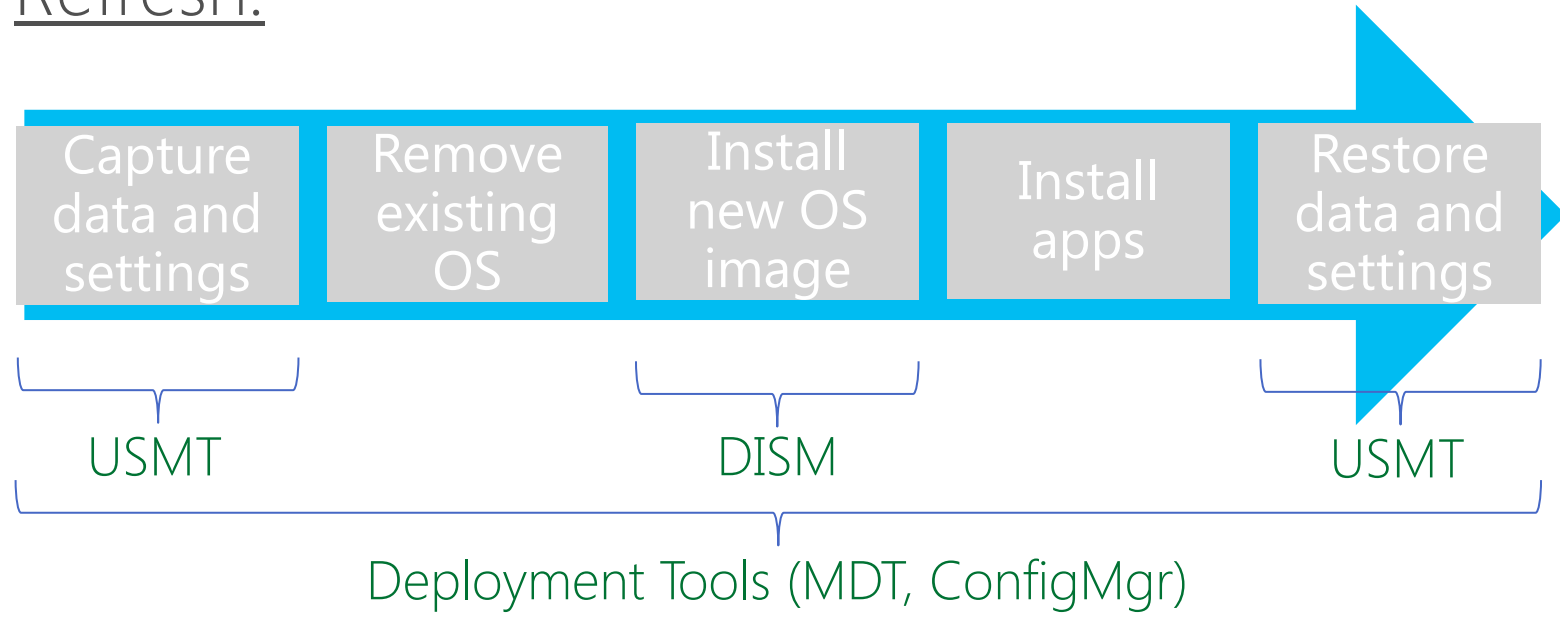
Consumers initiate the update through the Windows Store



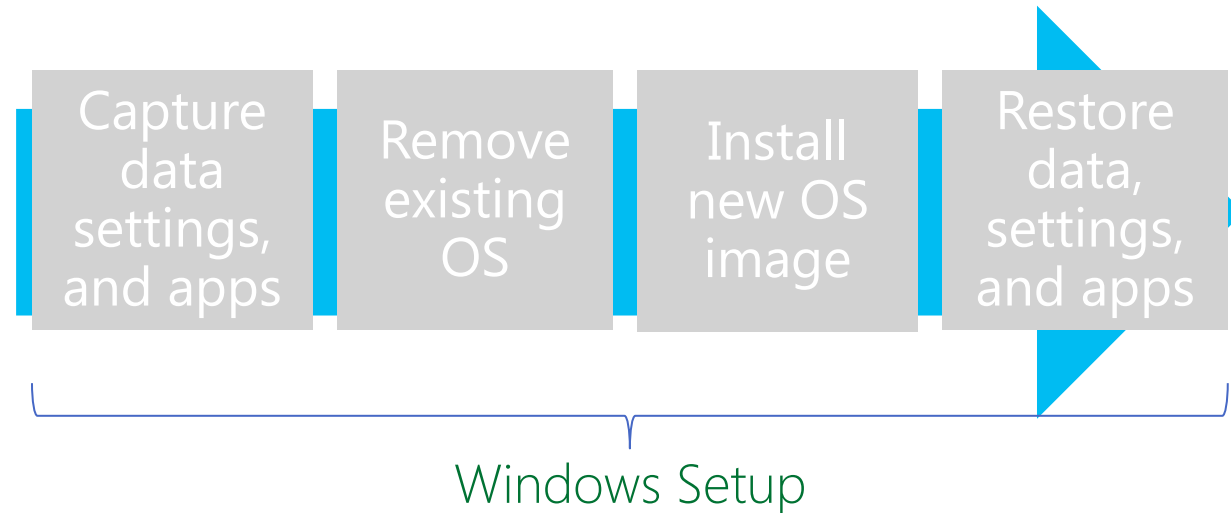
Update vs. Refresh: Your choice from Windows 8



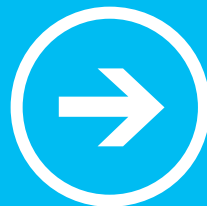
Refresh:



Update:



Update vs. Refresh: Your choice from Windows 8



Update using original Windows image

- Minimal up-front work required
- Greatly improved:
 - Much faster performance
 - Excellent reliability
 - Less disk space needed
- No “gold image” is needed or supported
- Existing applications are preserved
- All data is migrated, no configuration needed



Refresh using OS deployment tools

- Traditional approach used by enterprises
- “Cleanest” result
- More flexible:
 - Can use custom images
 - Easy to deploy new apps at the same time
 - Can be used for x86->x64 migrations
- More up-front planning

Demo

Windows 8 to Windows 8.1 Update via
ConfigMgr



Start Screen Layout

Simplified process

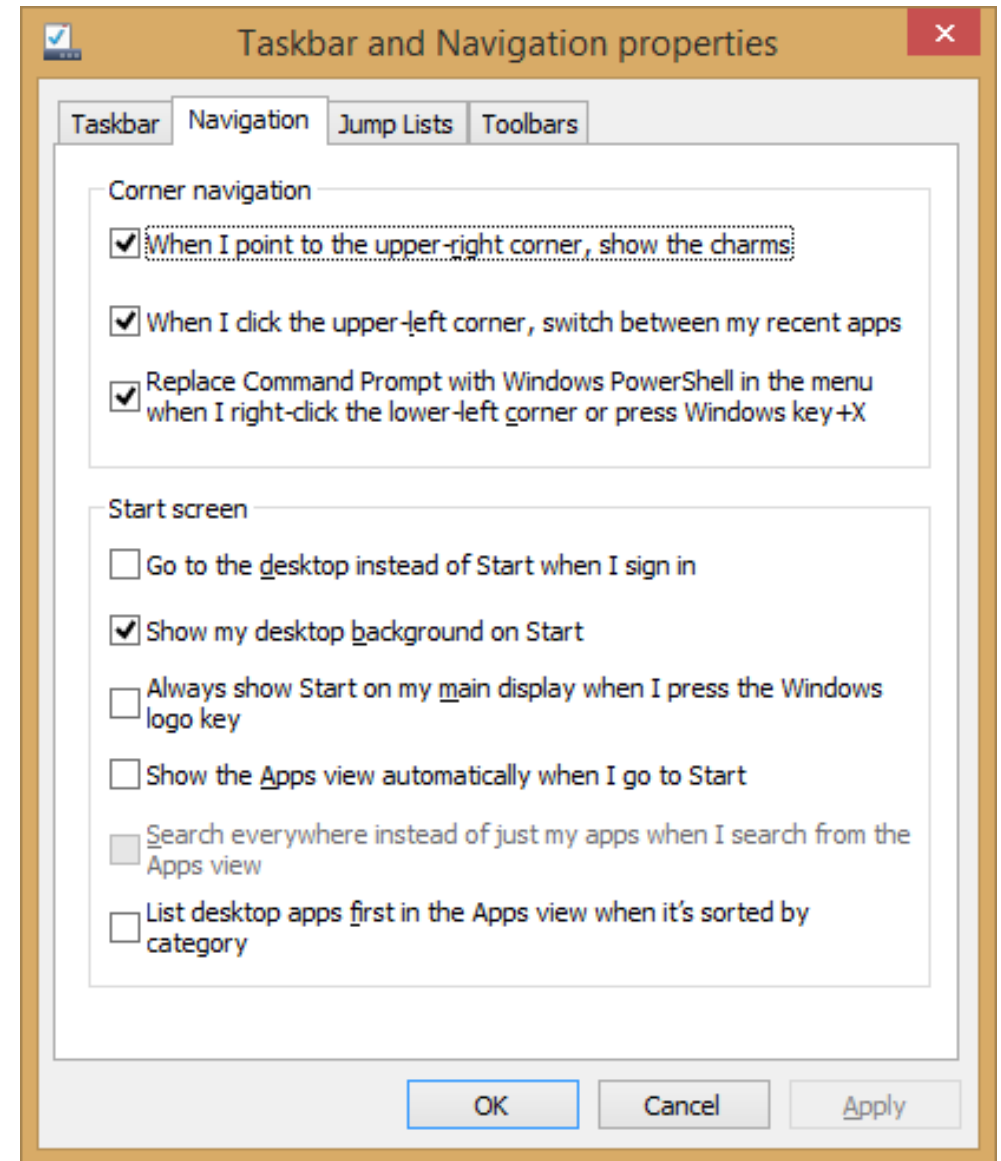
- New PowerShell cmdlets to import and export the layout, list start screen app IDs

Change in behavior

- New apps are no longer pinned by default

New capabilities

- Go to the desktop at logon
- Show the apps view automatically, show desktop apps first
- Group policies for layout control, choosing navigation properties



Demo

Start screen



Kiosks

Different types

- Single-purpose: run one app
- General-purpose: show the Start screen, run multiple apps

Assigned Access

- New feature in Windows 8.1 to specify “this user can only run this app”
- Simple mechanism for creating a “single-purpose kiosk”

Start Screen improvements











- Policy to force a start screen layout
- Prevent users from making changes (really)
- Can be used to create a “general-purpose kiosk”

More advanced scenarios?

- Use Windows Embedded Industry 8.1 Pro or Enterprise
- Available to volume license customers
- USB, keyboard, gesture filters
- Write filter to clear off changes by rebooting
- Advanced app launcher supports Win32 and modern apps
- Configurable via group policy

Windows 8.1

New volume license SKUs

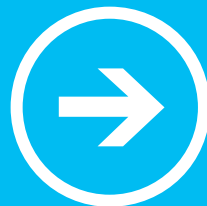
Capabilities	Windows 8.1 Pro	Windows 8.1 Enterprise	Windows Embedded Industry 8.1 Pro	Windows Embedded Industry 8.1 Enterprise
Management: Domain join, Group Policy, MDM, volume activation				
Enterprise features: DirectAccess, BranchCache, Start Screen Control, etc.				
Assigned Access: Simple single-purpose kiosk				
Lockdown: USB, Gesture, Shell, Keyboard, Toast, Write Filters; App Launcher				

Demo

Kiosks



Windows 8.1 Compatibility



Hardware requirements are unchanged

- Minor changes to Windows 8 logo requirements
- Support for most Windows 7-compatible hardware*
- No changes to memory, CPU, and disk requirements
- Drivers are compatible

Desktop app compatibility is excellent

Apps that work on Windows 7 and Windows 8 are expected to work on Windows 8.1 with no changes

Windows Store apps are compatible

Modern apps written for Windows 8 will work on Windows 8.1

Internet Explorer 11 compatibility is excellent

More improvements coming soon...

Other items of note

End-user Training Materials

- Available for customers to print or modify
- Windows 8.1 Quick Guide for Business
 - <http://www.microsoft.com/en-us/download/details.aspx?id=40895> (PDF)
 - <http://www.microsoft.com/en-us/download/details.aspx?id=41188> (raw files)
- Windows 8.1 Power User Guide for Business
 - <http://www.microsoft.com/en-us/download/details.aspx?id=41652> (PDF)
 - <http://www.microsoft.com/en-us/download/details.aspx?id=41667> (raw files)



App deployment

Windows Store apps

Installation



Register the application for the user
Always per-user
Does not require administrator rights
Side load or from the Windows Store

Install via an "Enterprise App Store" using:

- System Center 2012 Configuration Manager SP1 or higher
- Windows Intune

Enterprise side loading requirements

- Windows 8 Enterprise, domain joined or with a separate side load product key
- Windows 8 Pro or Windows RT, with a separate side load product key

Provisioning

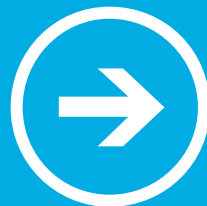


Register application on the computer
Install automatically for each user
Side load only
Requires administrator rights

Provision using the Microsoft Deployment Toolkit or DISM

- Include in sysprepped image
- Customize Start screen layout

Application updates



Automatic installation

Group policy can disable auto install, but enabled by default
Updates can still install without a Microsoft account

Installation when the Windows Store is disabled

Group policy can disable the Windows Store for the user, but still allow updates to install
Disabling the Windows Store for the computer prevents update installation

Works behind proxy servers

Addresses common issue in Windows 8

ios (version 6 or below):
Please input the below URL:

<http://aka.ms/WCP277>

Other platform:
QR Code:



