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# Ten reasons to move to ConfigMgr 2012 R2 SP1

# Agenda

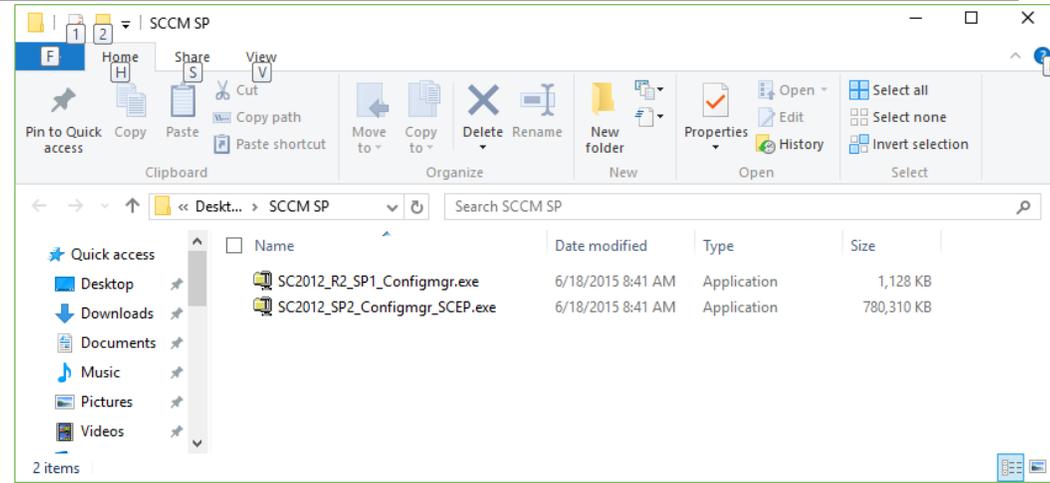


- What and how do we need to upgrade?
- Ten reasons why to move to SCCM 2012 R2 SP1
- Reasons not to upgrade, yet....

# Hey what do we need to upgrade?



- What do we need?
  - SCCM 2012 SP2?
  - SCCM 2012 R2 SP1?



- SCCM 2012 SP2 is the update itself
- SCCM 2012 R2 SP1 is a small package that enables (hidden) features in SCCM 2012 SP2 when coming from SCCM 2012 SP1
- You may want to install SCCM 2012 R2 CU5 before upgrading if you have over 10.000 deployments for legacy software packages. ([scug.be/sccm](http://scug.be/sccm))

# Hey what do we need to upgrade?



Starting point	Step 1	Step 2	Result
Fresh install	SCCM 2012 SP2		SCCM 2012 SP2
Fresh install	SCCM 2012 SP2	SCCM 2012 R2 SP1	SCCM 2012 R2 SP1
Fresh Install	SCCM 2012 R2	SCCM 2012 SP2	SCCM 2012 R2 SP1
SCCM 2012 SP1	SCCM 2012 SP2		SCCM 2012 SP2
SCCM 2012 SP1	SCCM 2012 SP2	SCCM 2012 R2 SP1	SCCM 2012 R2 SP1
SCCM 2012 R2	SCCM 2012 SP2		SCCM 2012 R2 SP1

source: <http://blogs.technet.com/b/michaelgriswold/archive/2015/05/14/sccm-2012-sp2-and-r2sp1-from-here-to-there.aspx>

# 10. Monkey safety



## SCCM Task Sequence blew up Australia's CommBank

POSTED 1021 DAYS AGO IN [INDUSTRY](#), [SCCM 2007](#), [SCCM 2012](#), [SYSTEM CENTER 2012](#), [SYSTEM CENTER CONFIGURATION MANAGER](#)

In "[Lessons in what NOT to do with SCCM](#)", we learned that a misguided patch distributed through SCCM may have taken down an entire Australia banking system. Then, in "[Update to the SCCM package heard round the world](#)" we heard about the numbers of desktops and servers effected, along with how HP (to whom CommBank outsources infrastructure services) is scrambling to make amends, sending HP CEO, Meg Whitman, into the fray.

Well, over the weekend, I was able to source even more scoop on this. No one has been able to get a clear picture of the true issue until now – partly because there are plenty of fingers pointing, and partly because of pride and cover-up.

Of course...as we all know working with SCCM over the years, SCCM picks-up most of the blame when things go wrong. However, we also know that SCCM simply does exactly what you tell it to do. Still, it's an easy target, particularly for those upper management types who really have no clue about how technology works. They think they do, but when you actually take them to task, they prove their lack of knowledge in 30 seconds or less. When that happens, it's best to just snicker under your breath and walk away. Confronting them with it (particularly in front of others) just gets you a direct ticket to the list of employees to show the door when times get tough.

## Emory University server accidentally sends reformat request to all Windows PCs, including itself

by [EMIL PROTALINSKI](#) [Tweet](#) — 16 May '14, 11:17pm in [SHAREABLES](#)



### Recommended

-  [The 18 best blogging and publishing platforms on the internet today](#)
-  [Code PhoneGap Apps. Fast. Create Cross-platform Mobile Apps With Telerik AppBuilder.](#)

# 10. Monkey safety



ConfigMgrLab Primary Site 1 Lab Prod Properties

General Wake On LAN Ports Sender Publishing Client Computer Communication Alerts

Deployment Verification Security Signing and Encryption

Configure details for collections that help to manage new high-risk deployments that are created at this site. An example of a high-risk deployment is a task sequence with a purpose of Required that deploys an operating system.

High-risk deployments are always limited to custom collections and the built-in All Unknown Computers collection.

Collection size limits:

Configure the maximum size of the custom collections that you can select in the Select Collection window. (Specify 0 to disable a configuration):

By default, hide collections with membership that exceeds the default size.

Default size:

Always hide collections that have more members than the maximum size.

Maximum size:

Collections with site system servers:

Specify the behavior to take when the selected collection includes computers that host site system roles:

Block; do not create the deployment

Warn; require verification before creating the deployment

OK Cancel Apply

Select Collection

Hide collections with a member count greater than site's minimum size configuration (100)

Device Collections

- Root
  - Citrix Delivery Sites
  - Endpoint Protection
  - Maintenance Windows
  - Operating System Deploy
  - Software Updates

Name	Member Count
All Citrix XenDesktop Servers	1
All clients in ConfigMgrFans.com Domain	6
All Desktops	0
All iOS Devices	0
All Mac OS X Devices	13
All Mac OS X Systems	0
All not trusted servers	2
All Servers	1
All Surface Pro's	0
All Unknown Computers	0
All Windows Phone 8x corporate owned devices	0
All Windows Phone 8x personal owned devices	0
All Windows Phone Devices	0

OK Cancel

Configuration Manager

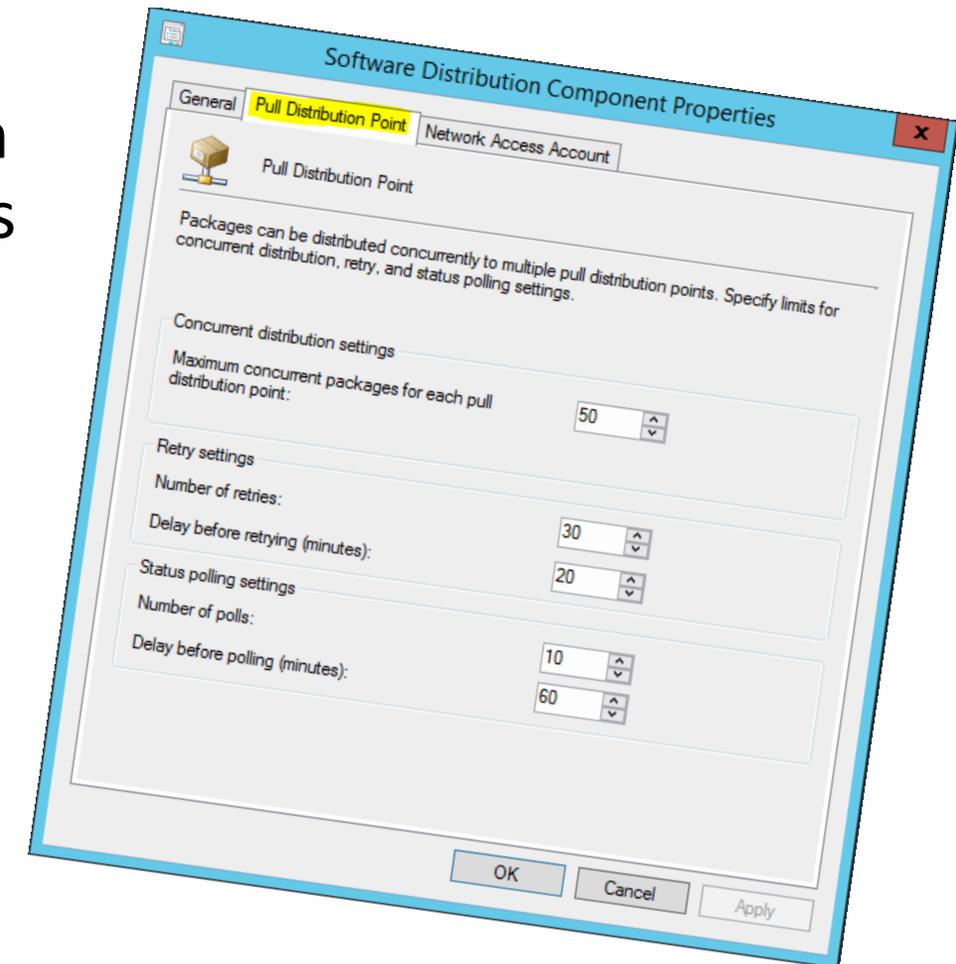
! 'OSD - Install Windows 7' has potential to be a high risk deployment. Therefore, the 'Select Collection' window displays only the custom collections that meet this site's configurations for collection size deployment verification. Deployment verification is configured as part of the site's Properties.

OK

# 9: Content Management



- RDC only used for files larger than 16KB.
- Pull-distribution points now have their own controls for concurrent distribution settings
- HTTPS source distribution points, a PKI enabled client on the computer that hosts the pull distribution point.
- Pull DP get automatic another Pull DP in the List
- If a content upload from a Site Server to a DP fails, it's now BITS regulated



# 8: Remote Device Actions

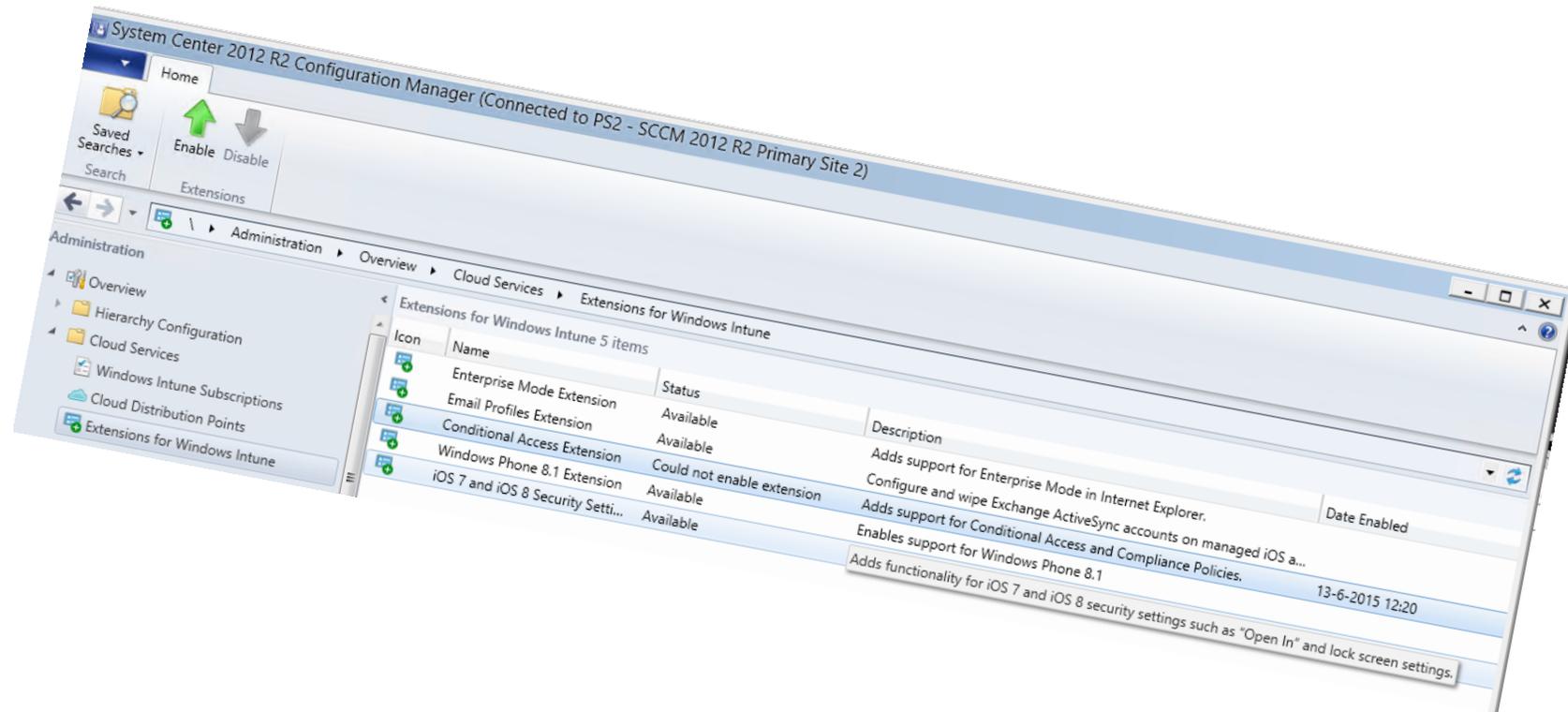


- When managing mobile devices with SCCM you are now able to:
  - passcode of a device
  - View status of remote lock and reset passcode
- What already was available;
  - Block / unblock access of device to SCCM
  - Retire / Wipe a device

# 7: Where are my Intune Extensions?



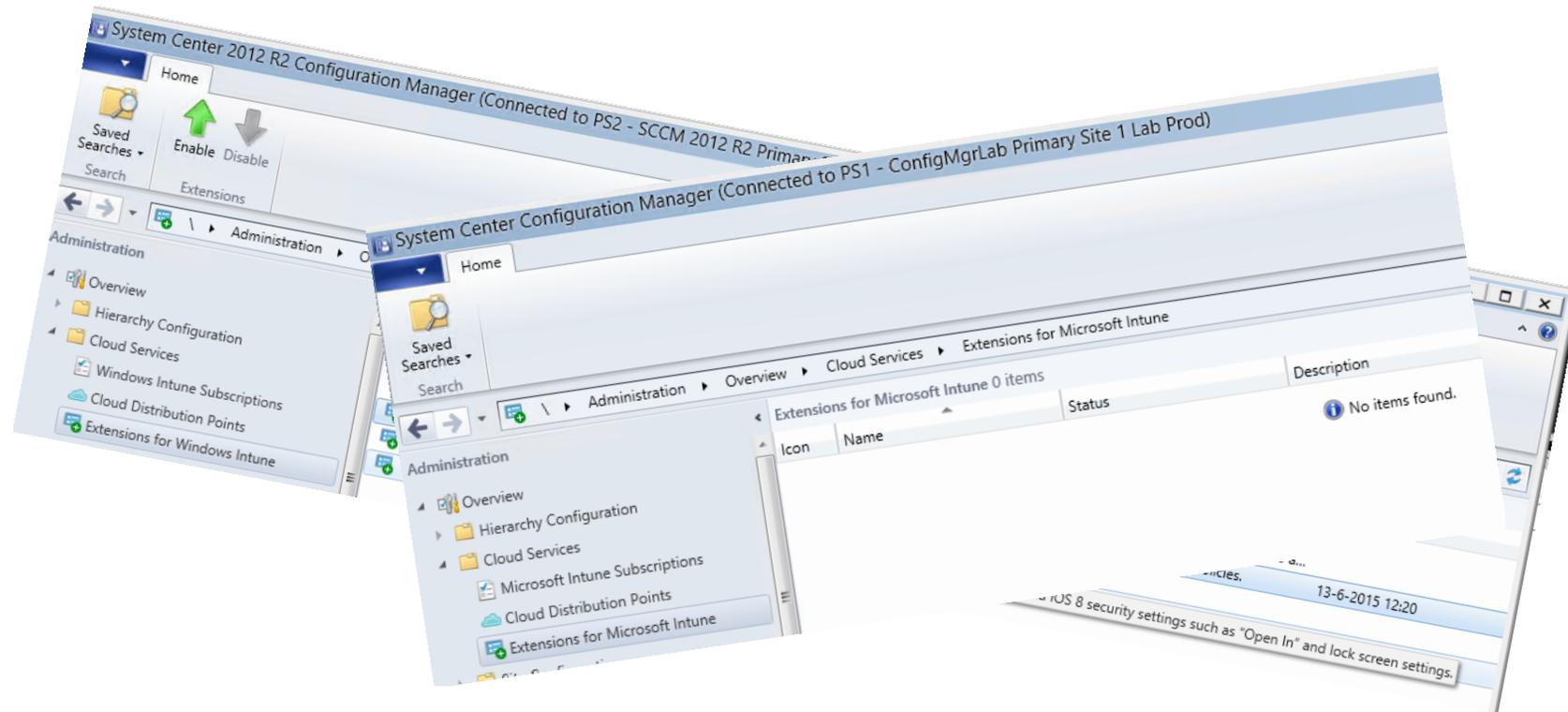
- The Extensions for ~~Windows~~ Microsoft Intune are merged in SCCM 2012 R2 SP1
- New capabilities will arrive via the Extensions for Microsoft Intune again



# 7: Where are my Intune Extensions?



- The Extensions for ~~Windows~~ Microsoft Intune are merged in SCCM 2012 R2 SP1
- New capabilities will arrive via the Extensions for Microsoft Intune again



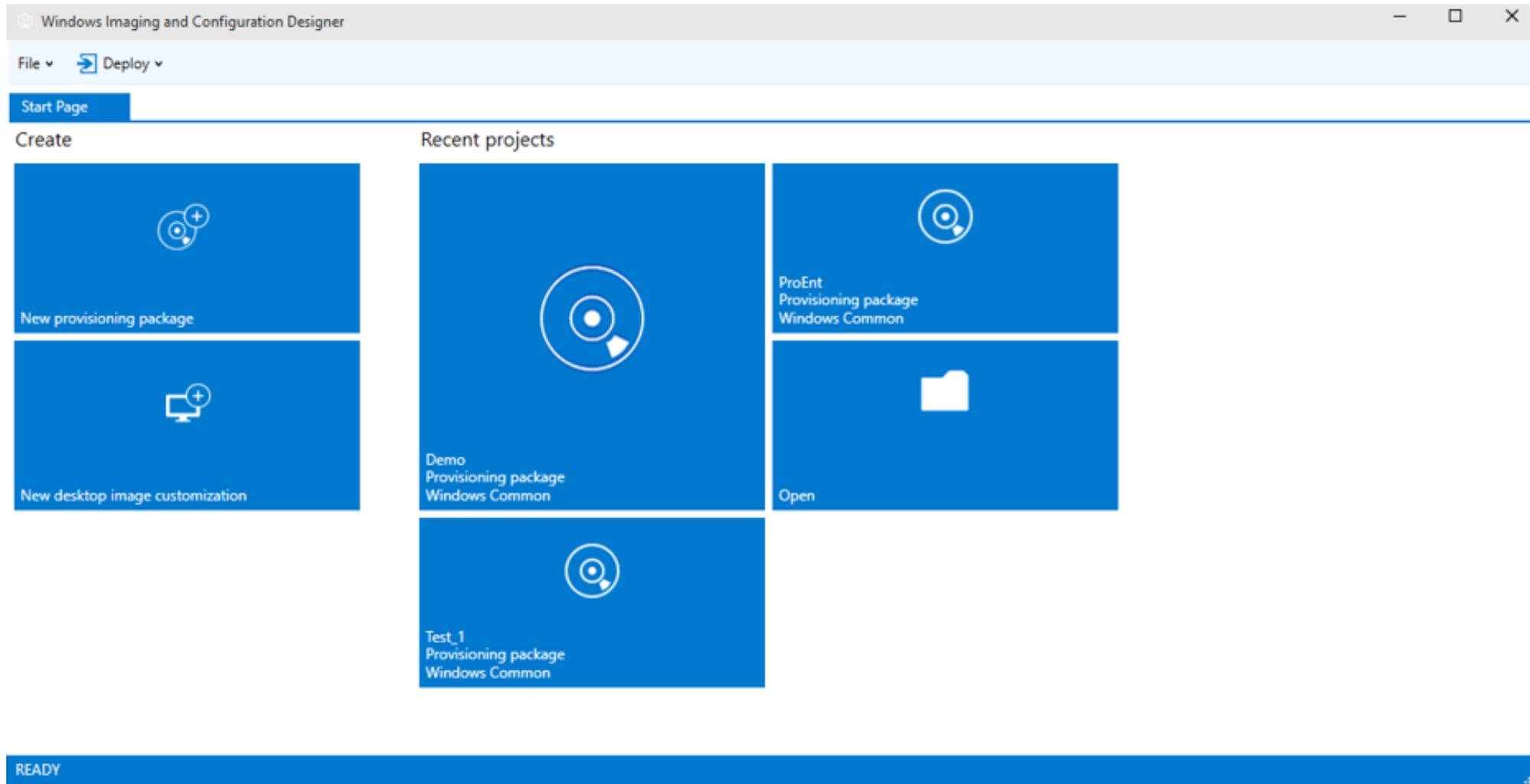
# 6: Windows 10 Deployment options



- You can now deploy Windows 10 to compatible devices in your hierarchy.

Wipe-and-Load	In-Place	Provisioning
<p><b>Traditional process</b></p> <ul style="list-style-type: none"><li>• Capture data and settings</li><li>• Deploy (custom) OS image</li><li>• Inject drivers</li><li>• Install apps</li><li>• Restore data and settings</li></ul>	<p><b>Let Windows do the work</b></p> <ul style="list-style-type: none"><li>• Preserve all data, settings, apps, drivers</li><li>• Install (standard) OS image</li><li>• Restore everything</li></ul>	<p><b>Configure new devices</b></p> <ul style="list-style-type: none"><li>• Transform into an Enterprise device</li><li>• Remove extra items, add organizational apps and <u>config</u></li></ul>
<p>Still an option for all scenarios</p>	<p>Recommended for existing devices (Windows 7/8/8.1)</p>	<p>New capability for new devices</p>

# 6: Windows 10 Deployment options



# 6: Windows 10 Deployment options



Windows 10 Will **Change** the Way  
You Deploy and Manage Windows

Configuration Manager & Intune,  
We've Got You **Covered**

# 6: Windows 10 Deployment options



## Upgrade vs Refresh

Continue to use refresh (wipe and load) when...

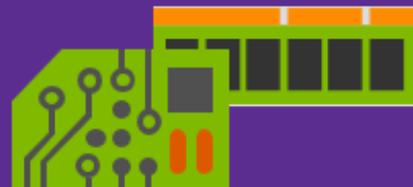
### Configuration Drift/Change

- Domain membership
- Local Administrators
- Bulk application swap



### Fundamental Change

- Disk partitioning
- BIOS -> UEFI
- x86 -> x64
- Base OS language



### Custom Requirements

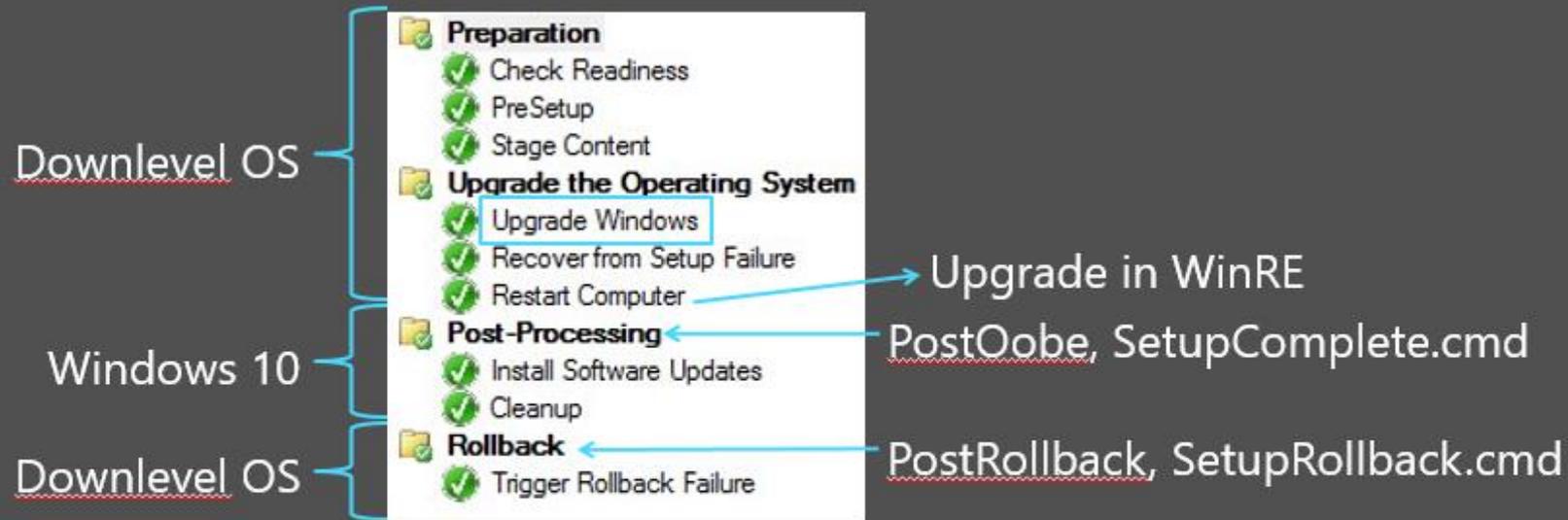
- WinPE offline operation
- Custom base image
- 3<sup>rd</sup> party disk encryption



# 6: Windows 10 Deployment options



## Sample Task Sequence

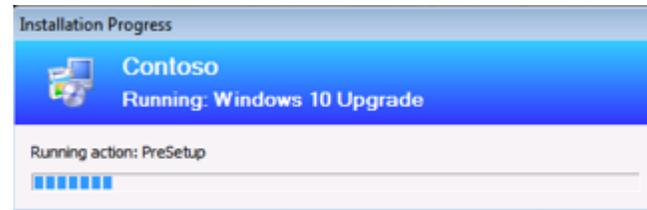


```
Setup.exe /Auto Upgrade /Quiet /NoReboot /DynamicUpdate Disable  
/PostOobe SetupComplete.cmd /PostRollback SetupRollback.cmd
```

# 5: TS Support from Product Group



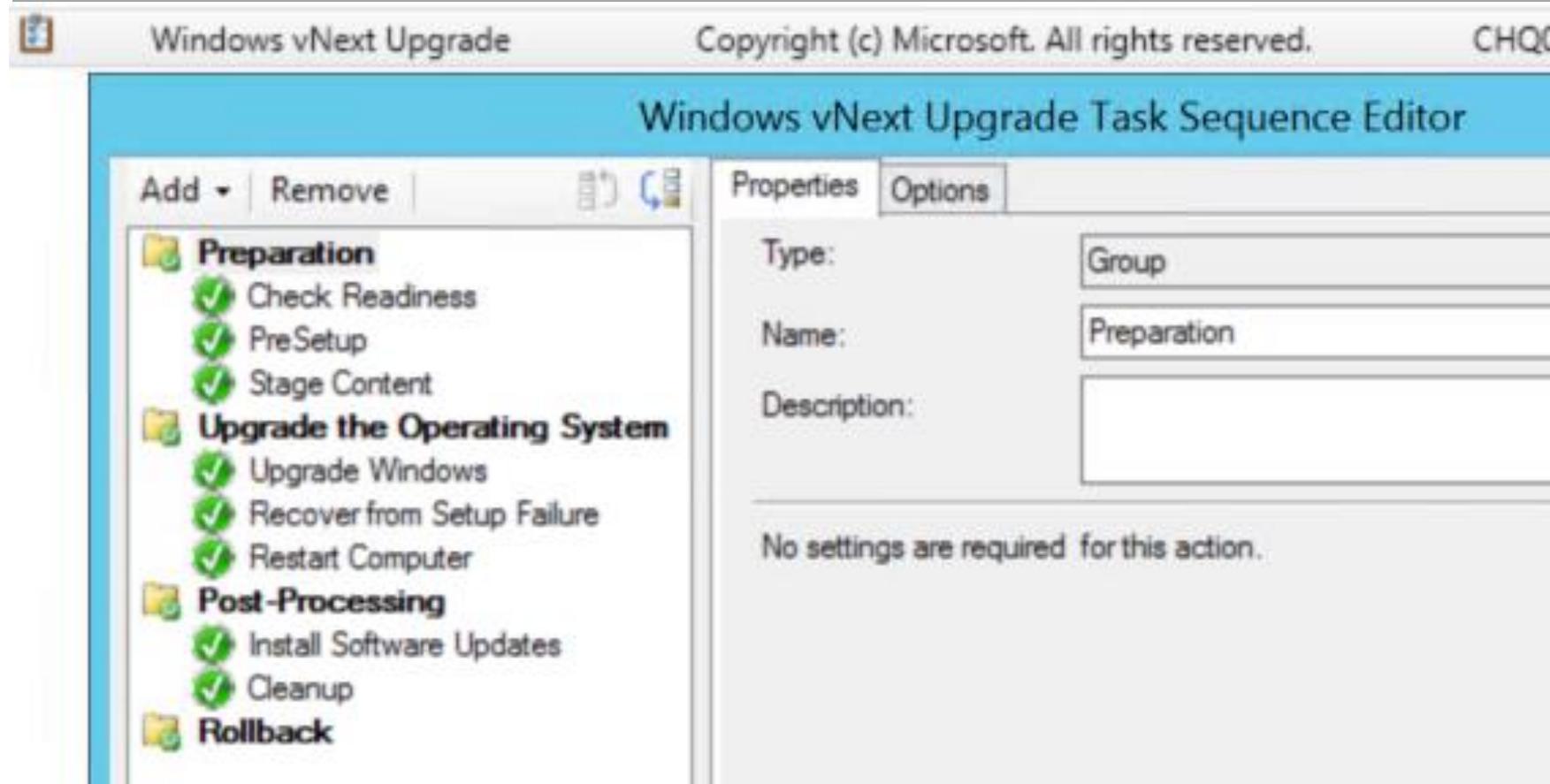
- Upgrade TS from Product Group
- Scripts to run
- New Setup.exe parameter
- During the TS deployed to a client (not PXE!)



[Content for the win10 in-place upgrade Part1](#)

[Content for the win10 in-place upgrade Part2](#)

# 5: TS Support from Product Group



[Content for the win10 in-place upgrade Part1](#)

[Content for the win10 in-place upgrade Part2](#)

# 4: Automatic Client Upgrade



- Ability to exclude the servers

The screenshot shows the Configuration Manager console with the 'Hierarchy Settings' pane open for the 'Contoso Headquarters' site. The 'Automatic Client Upgrade' tab is selected, showing the following settings:

- Upgrade client automatically when new client updates are available
- Do not upgrade servers
- Automatically upgrade clients within days: 7
- Last modified: 6/8/2015 2:55:53 AM
- Last modified by: corp\administrator
- Latest version: 5.00.8239.1000

Additional information displayed includes:

- The count of Configuration Manager clients by client versions report can be used to view overall client compliance in the hierarchy.
- These settings apply to all clients in the hierarchy.
- Automatic client upgrades will not be installed until clients are assigned to a site that is the same version as the top-level site in the hierarchy.
- Clients in slow or unreliable boundaries will not be upgraded automatically.
- Applied to Windows operating systems only. You can download clients for additional operating systems from the [Microsoft Download Center](#).
- Automatically distribute client installation package to distribution points that are enabled for pre-staged content

The console also shows a table of sites:

Icon	Name	Type	Server Name
[Icon]	CHQ - Contoso Headqu...	Primary site	CM1.corp.c
[Icon]	MD1 - MDT test Site	Secondary site	MDT1.corp

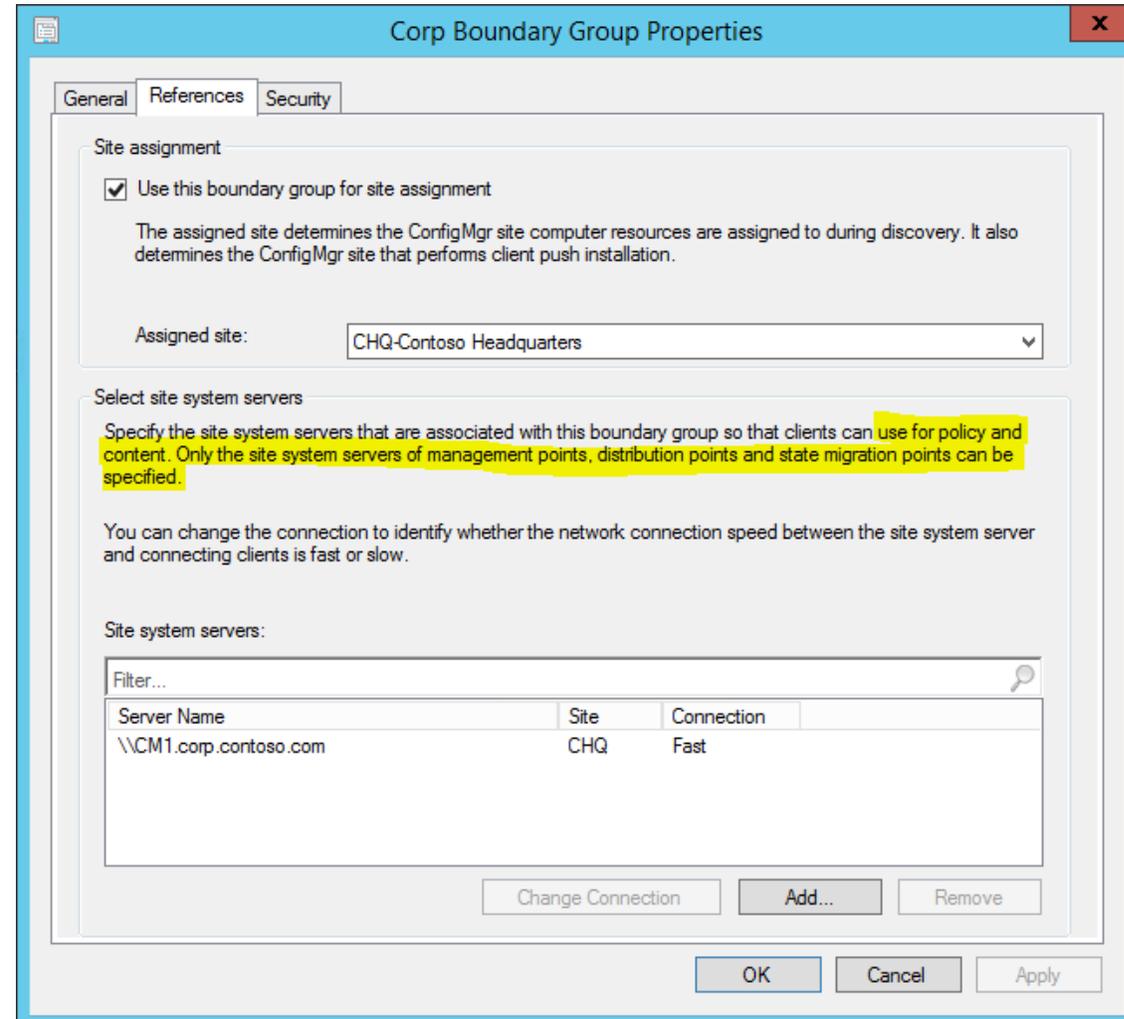
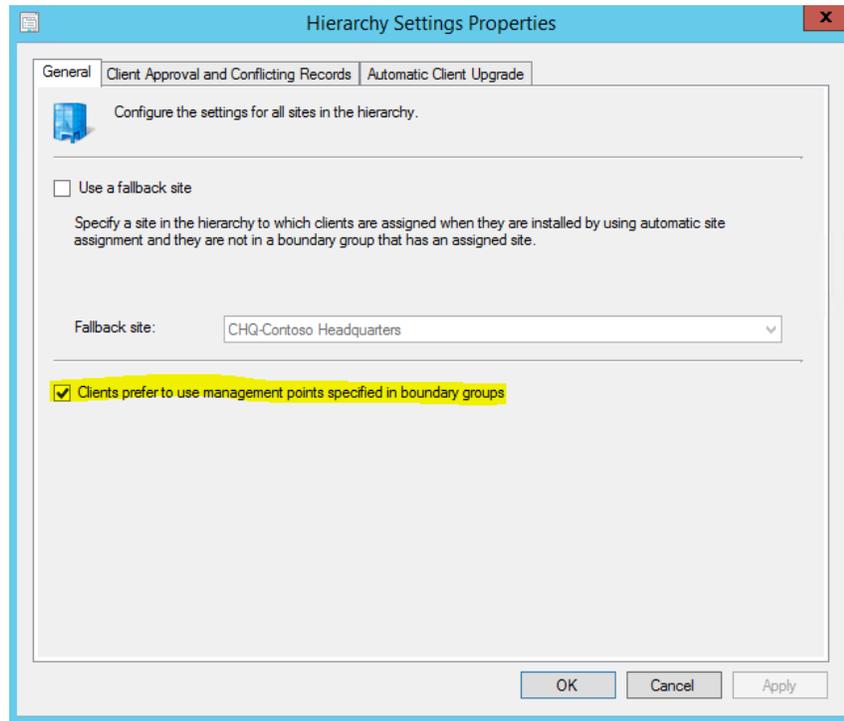
Site details for 'Contoso Headquarters':

- Site Code: CHQ
- Server Name: CM1.corp.contoso.com
- Install Directory: C:\Program Files\Microsoft Configur...
- Build Number: 8239
- Status: Active

# 3: Preferred Management Points



- Done via Boundary Groups



# 2: Mobile Application Management

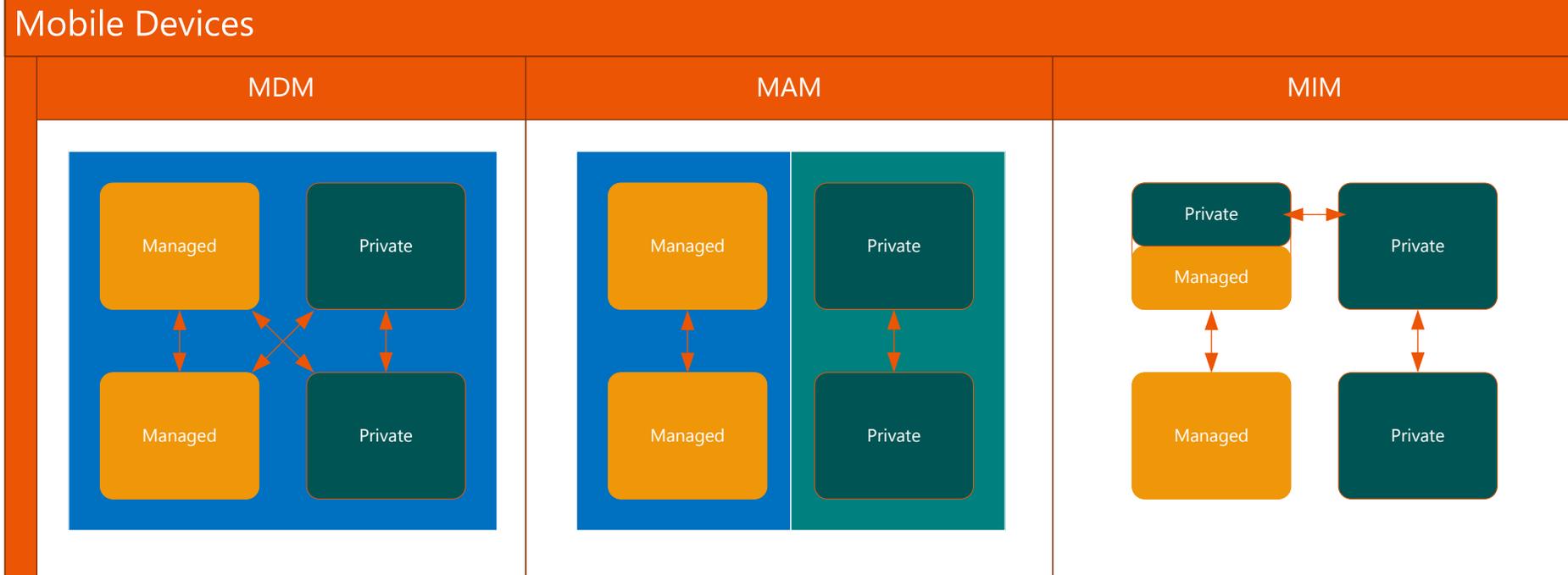


- Support for Mobile Application Management for
  - iOS Apps in the Store / LOB apps
  - Android Apps in the Store / LOB apps
  - See for a complete MAM enabled Store apps: <http://ref.ms/mam>

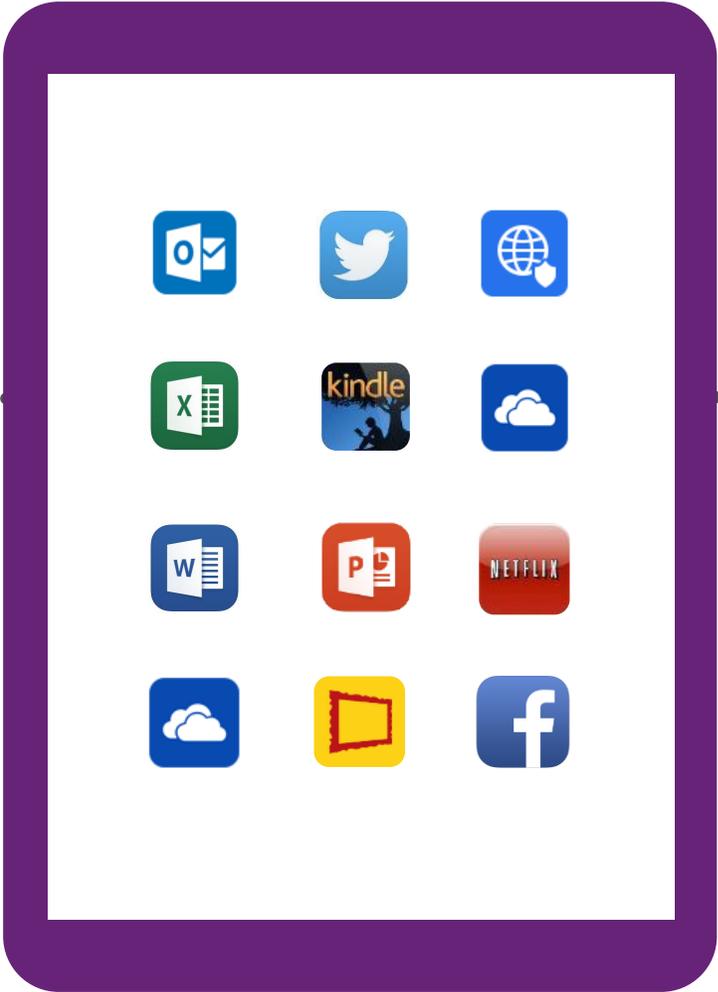
Also:

- Support for required install from iOS apps from the Apple Store
- Support for Samsung KNOX

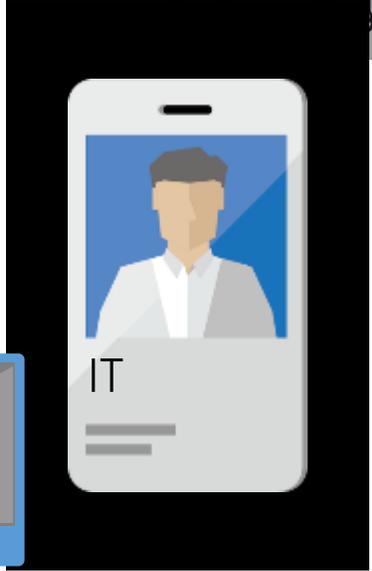
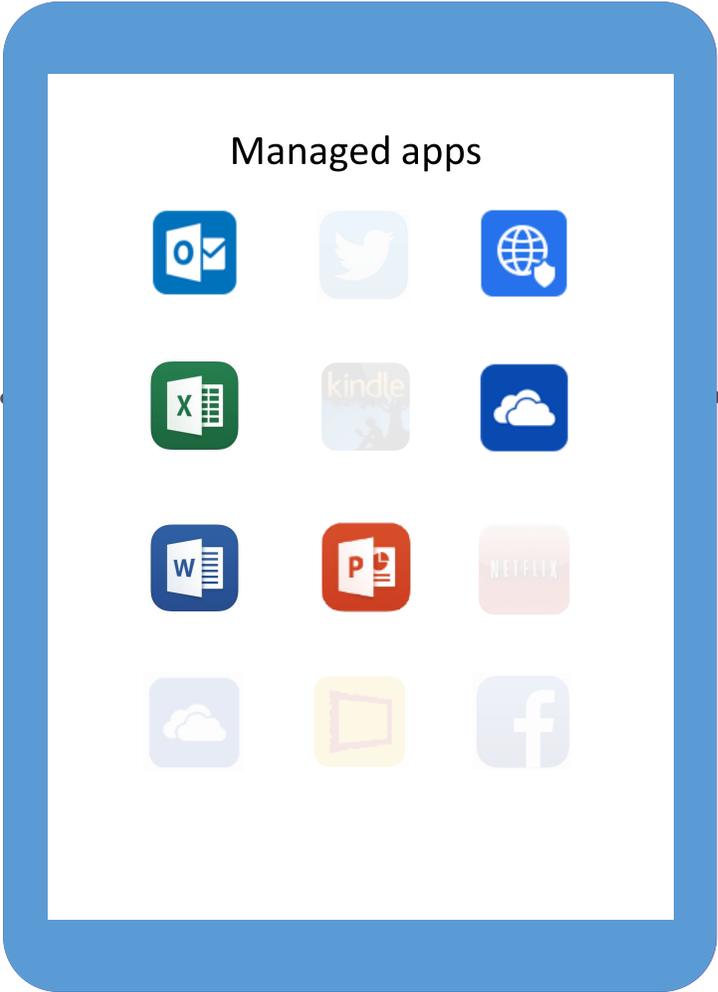
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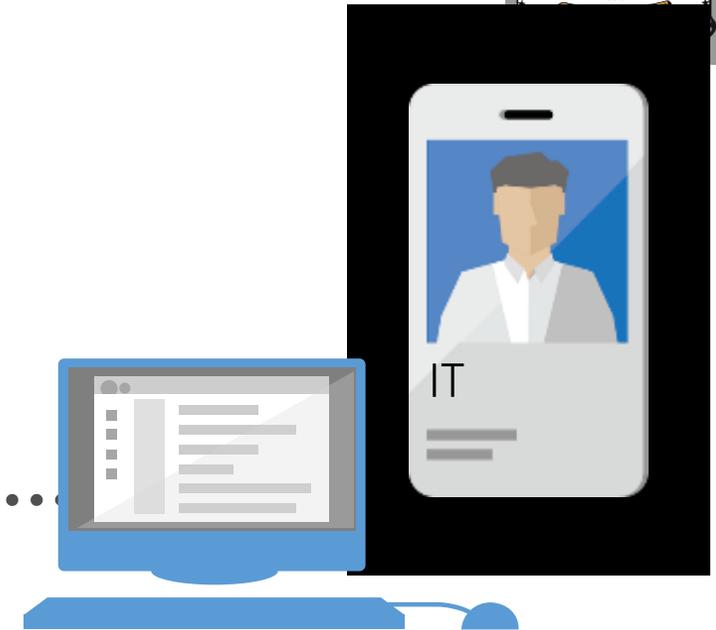
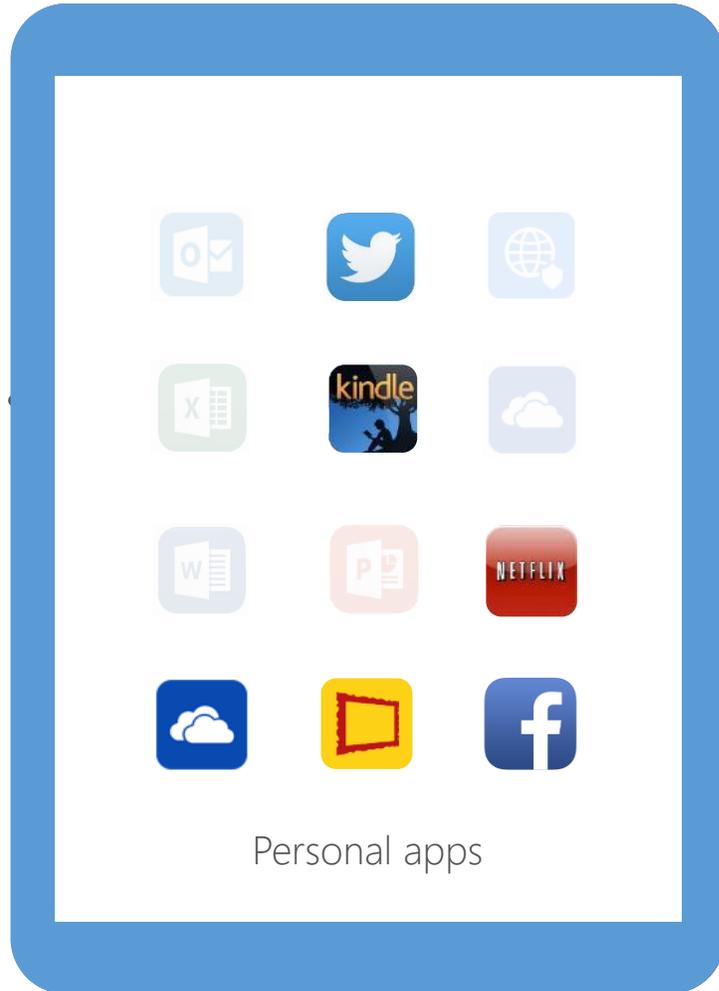
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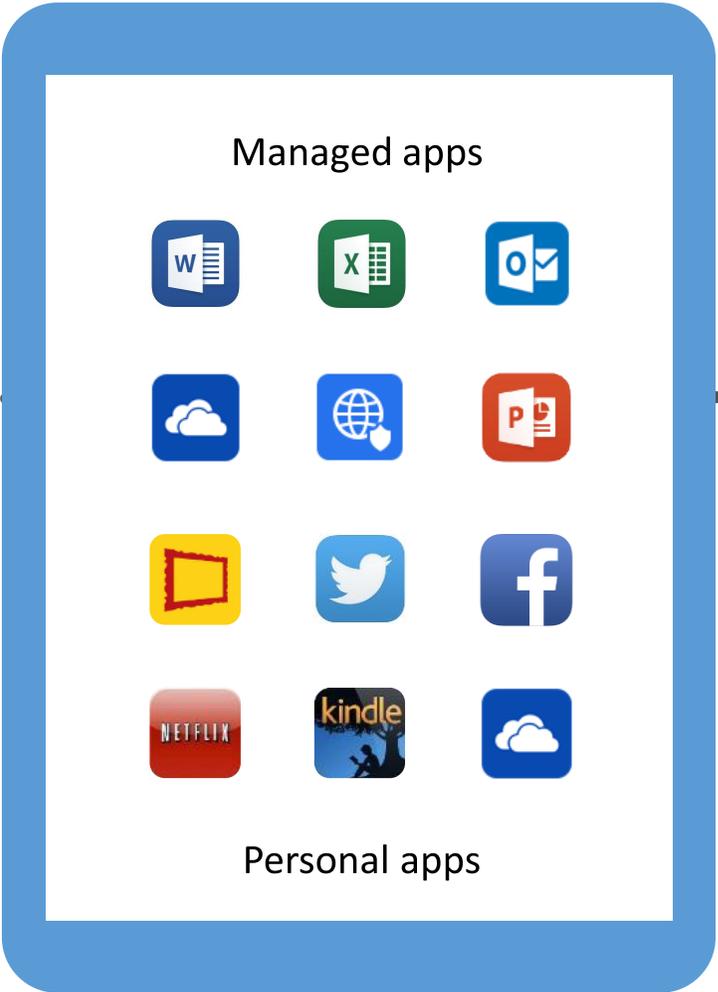
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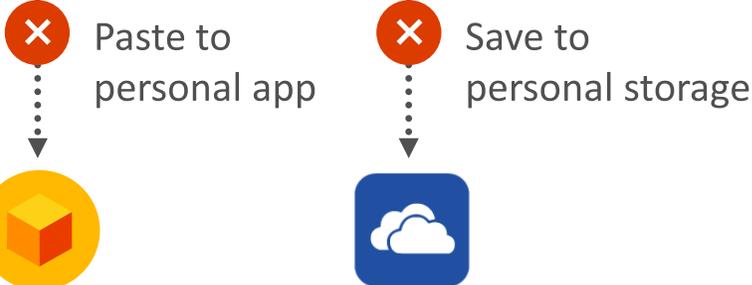


# 2: Mobile Application Management



- ▶ Extend these capabilities to existing line-of-business apps using the Intune app wrapper
- ▶ Enable secure viewing of content using the Managed Browser, PDF Viewer, AV Player, and Image Viewer apps

# 2: Mobile Application Management

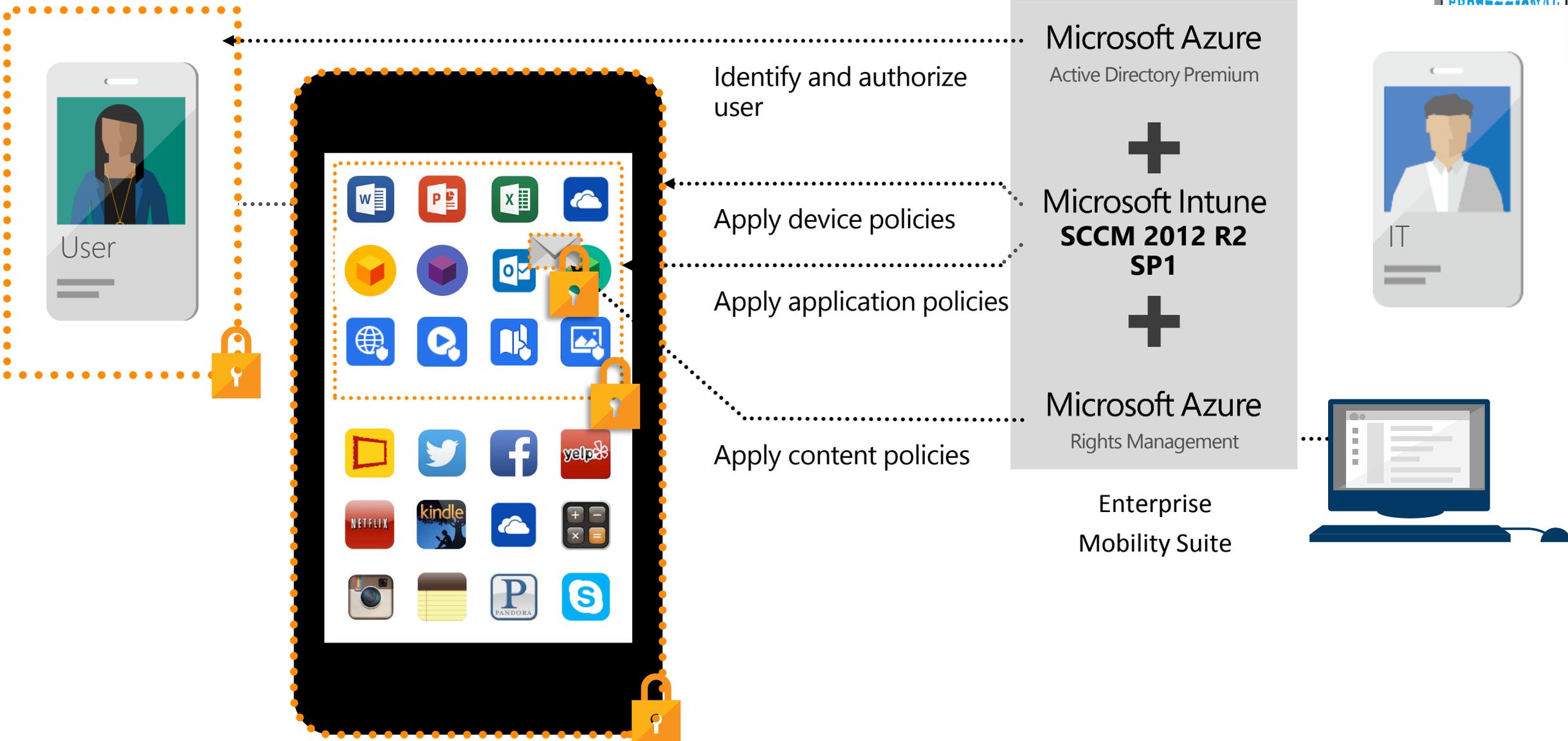


▶ Maximize productivity while preventing leakage of company data by restricting actions such as copy/cut/paste/save in your managed app ecosystem

# 2: Mobile Application Management



Consolidation: Multiple layers of data protection



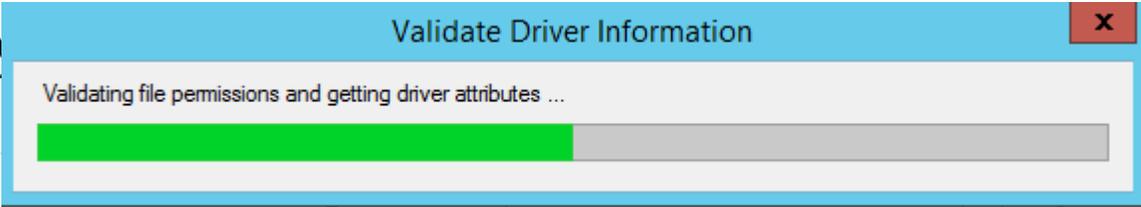
# 1: Task Sequence Updates



- Windows 10 ADK support. (Install it first before SP2)
- Importing drivers new view. [Problem with timeout](#)
- notifies if you implement a TS with a OS that could cause damage.
- Multi Restarts during the Install
- RBA for standalone media.
- Enhanced audit messages for operating system deployment.
- **OS Installer Package** renamed to **OS Upgrade Packages**.
- TS USB media now supports larger than 32GB.

# 1: Task Sequence Updates

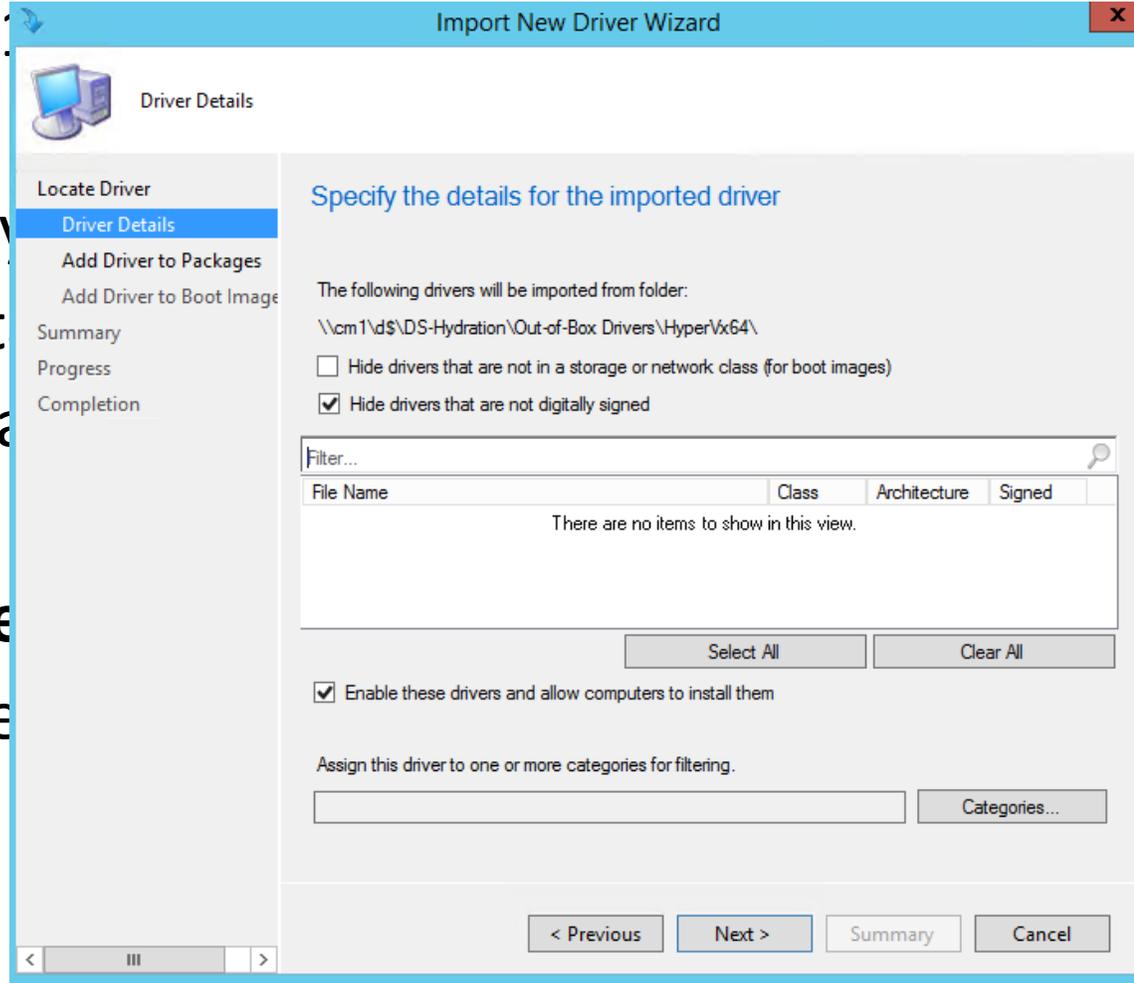


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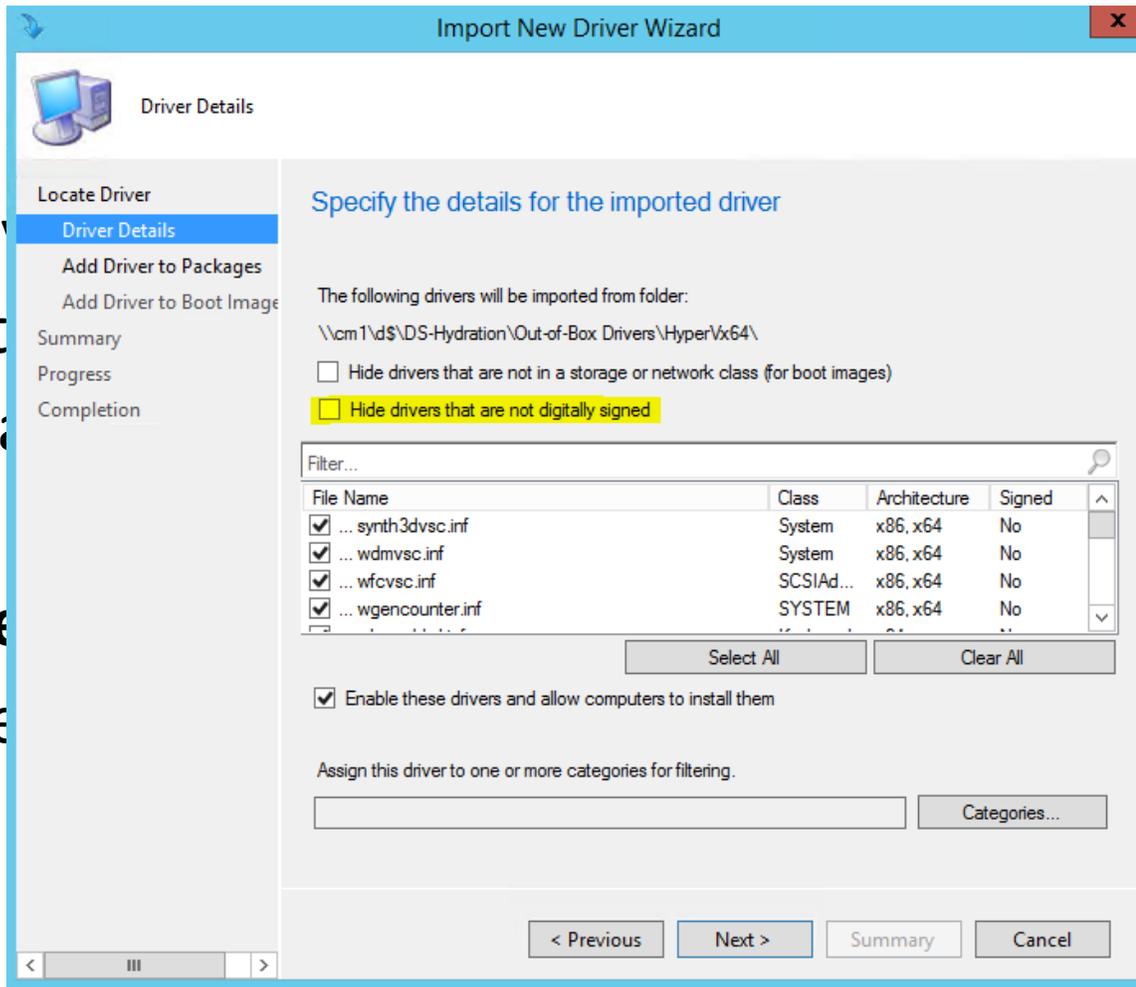
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SP2)

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# 1: Task Sequence Updates



OSD - Install Windows 8.1 plus App-v 5.1 Task Sequence Editor

Add ▾ | Remove |  

**Test Environment**

- Check Readiness
- Use Toolkit Package

**Capture Files and Settings**

**Install Operating System**

- Restart in Windows PE
- Partition Disk 0
- Set OSDPreserveDriveLetter varia
- Apply Operating System
- Apply Windows Settings
- Apply Network Settings
- Apply Device Drivers

**Setup Operating System**

- Setup Windows and Configuration
- Install Updates
- Install Software Updates

**Properties** | **Options**

Disable this step

---

Retry this step if computer unexpectedly restarts

Number of times to retry:  ▾

Continue on error

 Add Condition ▾ |  Remove |  Remove All

There are no items to show in this view.

# Why not to move to SCCM 2012 R2 SP1



- [When using distributed views](#) (blog by Brian Mason)
- [App-V 5.0 SP2 HF4 apps](#)
- [object replication manager](#)
- [smsstatesystem has errors](#)
- [Driver import, Konsole timeout](#)
- [Deployment properties](#)
- [Client stop responding](#)

# Help to improve SCCM and Intune



- Share your voice / ideas!
- <http://microsoftintune.uservoice.com/>
- <http://configurationmanager.uservoice.com/>



# Questions



# Weitere Infos



## Digicomp Kurse neu

<https://www.microsoft.com/learning/en-us/course.aspx?ID=20695A&Locale=en-us>

<https://www.microsoft.com/learning/en-us/course.aspx?ID=20696A&Locale=en-us>

# Danke



## Herzlichen Dank

Mirko Colemberg @mirkocolemberg @configmgr\_ch #cmce\_ch  
blog.colemberg.ch

## Bewertung der Session: [Configmgr.ch](https://www.configmgr.ch)

- Xing: <https://www.xing.com/net/cmce>
- Facebook: <https://www.facebook.com/groups/411231535670608/>
- LinkedIn: <http://www.linkedin.com>
- Twitter: [https://twitter.com/configmgr\\_ch](https://twitter.com/configmgr_ch)

Nächster Event: Donnerstag 29. Oktober Digicomp Zürich