

New in Place Upgrade Tool Windows 7 to Windows 10

Microsoft released a new tool for in place upgrade. It does all the work for you and saves the script which can be imported into CB1910. After that you can deploy the task sequence – sit back and relax.

Check the link for more info - <https://techcommunity.microsoft.com/t5/windows-it-pro-blog/simplifying-windows-10-deployment-with-configuration-manager/ba-p/1214364>

<https://aka.ms/win10upgradedemo>

Here is various screen shot, I took within home lab. Here are my upgrade packages for Win 7 to Win 10.

Overview > Operating Systems > Operating System Upgrade Packages

Operating System Upgrade Packages 4 items

Icon	Name	Version	Comment	Package ID	OS Version	Scheduled Update
	Win 7 to Win 10 IPU	v1903 x64	Zero Touch IPU	TOR0017D	10.0.18362.30	
	Windows 10	v1909	To upgrade older...	TOR00183	10.0.18362.418	
	Windows 10	v1903 x64	This contains Win...	TOR00031	10.0.18362.30	
	Windows Server 2019 VL	1.0	This contains Win...	TOR00020	10.0.17763.107	

Microsoft 365 admin center

In-place upgrade with Configuration Manager

- Overview
- Upgrade options**
- Configuration
- Deployment

About in-place upgrades

The in-place upgrade process preserves all data, settings, applications, and drivers from the existing operating system version. It's designed to be extremely reliable and has the ability to automatically roll back to the previous operating system if any issues are encountered. When you're finished, you'll get a script that you can run on your Configuration Manager server to verify the prerequisites and complete the deployment.

Prerequisites

- Upgrade System Center Configuration Manager (Current Branch) to one of the two latest supported versions
- Install the Windows ADK version that matches the version of Windows 10 that you're deploying
- Download volume license media for Windows 10
- Uninstall System Center Endpoint Protection from devices being upgraded
- Check with your antivirus vendor to see if the software needs to be disabled or uninstalled before starting an in-place upgrade

Situations where you can't use in-place upgrade

- Changing from a 32-bit operating system to a 64-bit operating system
- Using Windows To Go and Boot from VHD installations

Next Cancel

In-place upgrade with Configuration Manager

- Overview**
- Upgrade options
- Configuration
- Deployment

Configure Windows 10 upgrade options

Provide the location where you saved your operating system installation files and then set the remaining upgrade parameters.

Task sequence name

Have you added the operating system upgrade package to Configuration Manager? ?
 Yes
 No

OS upgrade package ID ?

Windows edition ?

Log file location ?

Back **Next** Cancel

In-place upgrade with Configuration Manager

- ✓ Overview
- Upgrade options
- Configuration
- Deployment

Yes
 No

OS upgrade package ID ⓘ

Windows edition ⓘ

Log file location ⓘ

Prepare for upgrade tasks

Inline compatibility assessment ⓘ On

Power source check ⓘ On

Network connection check ⓘ On

Disk space check ⓘ On

Post-processing tasks

Run diagnostic tool on failure ⓘ On

Verify app compatibility and system requirements before installing the upgrade. If issues are found, the upgrade won't proceed.

If **On**, the upgrade won't start unless the device is using a wired power source.

If **On**, the upgrade won't start unless the device is using a wired network connection.

If **On**, the upgrade won't start unless the device has 16 GB of free disk space for the 32-bit OS or 20 GB for the 64-bit OS.

If the upgrade was unsuccessful, run [SetupDiag](#) to help find the root cause of the failure.

In-place upgrade with Configuration Manager

- ✓ Overview
- ✓ Upgrade options
- Configuration
- Deployment

Confirm your configuration

Confirm your selections as we will create a script based on them. [Edit the details](#) if you want to make any changes to the following information.

Task sequence name

Windows 10 upgrade - Task 1

Operating system upgrade package in Configuration Manager

Yes

OS upgrade package ID

TOR00183

Windows edition

Windows 10 Enterprise

Log file location

\\CB\SOURCES\LOGS

Inline compatibility assessment

On

In-place upgrade with Configuration Manager

- ✓ Overview
- ✓ Upgrade options
- Configuration
- Deployment

Operating system upgrade package in Configuration Manager

Yes

OS upgrade package ID

TOR00183

Windows edition

Windows 10 Enterprise

Log file location

\\CB\SOURCES\LOGS

Inline compatibility assessment

On

Power source check

On

Network connection check

On

Disk space check

On

Diagnostic tool

On

In-place upgrade with Configuration Manager

- ✓ Overview
- ✓ Upgrade options
- ✓ Configuration
- Deployment

Deploy the upgrade

Download the following script to a folder on your Configuration Manager server, for example, E:\scripts. This script will import your settings into Configuration Manager and deploy the upgrade.

 Download the script

[Download a sample script](#) ⓘ

After you download the script, follow the steps in all the tabs to complete the deployment.


Run script

Schedule upgrade

Begin upgrade



Step 1

Open the Configuration Manager console. In the upper left corner of the ribbon, select the white arrow in the blue rectangle , and then choose **Connect via Windows PowerShell**.

Step 2

In Windows PowerShell, enter the following command and accept the change:

Set-ExecutionPolicy Unrestricted -Scope Process

Step 3

Enter the full path of the script, and then select the **Enter** key.

Example: E:\scripts\Windows10deployment.ps1

If you need additional assistance, contact your FastTrack engineer.

Back

Finish

Cancel

ⓘ If the script encounters an error while importing the settings, it will rollback the changes that were made to your environment.

In-place upgrade with Configuration Manager

- ✓ Overview
- ✓ Upgrade options
- ✓ Configuration
- ✓ Deployment

✓ Deployment configuration complete

Now you can monitor your deployment from the Configuration Manager console.

Learn more

[Monitor operating system deployments in System Center Configuration Manager](#)

Done

Microsoft 365 admin center

RAMLAN INC

Search users, groups, settings or tasks + Add card Dark mode What's new? The new admin center

Essentials

User management

Azure AD Connect

- ✓ Directory sync: last synced 10 minutes ago
- ✓ Password sync: recent synchronization

Add user Edit a user

Billing

\$0.00 Total balance

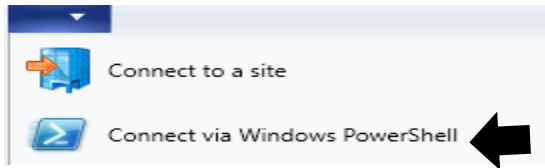
Balance Subscription

Training & guides

- Training for admins: Microsoft 365 tutorials and videos
- Customized setup guidance: Choose a setup path to fit your org
- Training for users: Learn to use Office 365 and the Office apps

```
Administrator: Windows PowerShell ISE
File Edit View Tools Debug Add-ons Help
Win10Deployment.ps1 X
1
2 [string]$TaskSequenceName = 'Windows 10 upgrade - Task 1'
3 [bool]$HasAddedOSUpgradePackage = $true
4 [string]$OSUpgradePackagePath = ''
5 [int]$LCID = 1033
6 [bool]$Is64BitArchitecture = $true
7 [string]$OSUpgradePackageID = 'TOR00183'
8 [int]$WindowsEditionIndex = 3
9 [string]$LogFileLocation = '\\CB\SOURCES\LOGS'
10 [bool]$ShouldRunInlineCompatibilityAssessment = $true
11 [bool]$ShouldRunPowerSourceCheck = $true
12 [bool]$ShouldRunNetworkConnectionCheck = $true
13 [bool]$ShouldRunDiskSpaceCheck = $true
14 [bool]$ShouldRunDiagnosticToolOnFailure = $true
15
16 function Import-SccmModule() {
17     Write-Host 'Checking for SCCM PowerShell module'
18
19     if (-not (Get-Module ConfigurationManager)) {
20         $ModuleLocation = ($env:SMS_ADMIN_UI_PATH.Substring(0, $env:SMS_ADMIN_UI_PATH.Length - 5) + '\ConfigurationManager.psd1')
21         Write-Host 'Importing SCCM PowerShell module from: ' $ModuleLocation
22         Import-Module $ModuleLocation | Out-Null
23     }
24     else {
25         Write-Host 'SCCM PowerShell module already imported'
26     }
27 }
28
29 function Set-SccmLocation() {
30     Write-Host 'Calling WMI to get SCCM site code'
31     $Sccm = Get-WmiObject -Namespace "root\SMS" -Class "SMS_ProviderLocation"
32
33     if (-not $Sccm -or -not $Sccm.SiteCode) {
34         throw 'Could not get SCCM site code from WMI'
35     }
36
37     Write-Host "Checking for existing SCCM drive for site code $($Sccm.SiteCode)"
38     $Drive = Get-PSDrive | Where-Object { $_.Name -eq $Sccm.SiteCode }
39
40     if (-not $Drive) {
41         Write-Host "Creating SCCM drive for site code $($Sccm.SiteCode)"
42         $LocalFqdn = ([System.Net.Dns]::GetHostByName(($env:computerName)).) .Hostname
43         New-PSDrive -Name $Sccm.SiteCode -PSProvider "AdminUI.PS.Provider\CMSite" -Root $LocalFqdn -Description "SCCM Site" | Out-Null
44     }
45 }
```

Now connect to the console through PowerShell



Run this command `set-executionpolicy unrestricted -scope process`

```
Administrator: Windows PowerShell
PS TOR:\> set-executionpolicy unrestricted -scope process

Execution Policy Change
The execution policy helps protect you from scripts that you do not trust. Changing the execution policy might expose you to the security risks described in the about_Execution_Policies help topic at
https://go.microsoft.com/fwlink/?LinkID=135170. Do you want to change the execution policy?
[ Y ] Yes [ A ] Yes to All [ N ] No [ L ] No to All [ S ] Suspend [ ? ] Help (default is "N"): y
PS TOR:\> cd "c:\sources\win10deployment.ps1"
```

Type `cd "c:\sources"` and press Enter. After that type `.\win10deployment.ps1`

As you do the script will start creating task sequence with all the settings you selected before.

```
PS TOR:\> cd "C:\sources"
PS C:\Sources> .\win10Deployment.ps1
Checking for SCCM PowerShell module
SCCM PowerShell module already imported
Calling WMI to get SCCM site code
Checking for existing SCCM drive for site code TOR
Using existing SCCM drive for site code TOR
Changing location to TOR:
Validating arguments
Checking share permissions for log folder '\\CB\SOURCES\LOGS'
LogServerName = CB
LogShareName = SOURCES
The share for log folder '\\CB\SOURCES\LOGS' already has at least write permission for the Everyone group.
Getting OS installer with package ID 'TOR00183'
Creating task sequence named 'Windows 10 upgrade - Task 1'
Task sequence 'Windows 10 upgrade - Task 1' has package ID 'TOR0019F'
Getting task sequence groups to move
Creating new 'Upgrade Steps' task sequence group
Adding upgrade checks
Removing existing 'Check Readiness for Upgrade' task sequence step
Creating new 'Check Readiness for Upgrade' task sequence step
Creating new 'Upgrade Assessment' task sequence step
Creating new 'Check Upgrade Assessment Return Code' task sequence step
Creating new 'Inline Compatibility Assessment' task sequence group
Creating new 'Load Win32_Battery class in WMI' task sequence step
Creating new 'Check Power Cable' task sequence step
Creating new 'Check Power Source' task sequence group
Creating new 'Check network connection' task sequence step
Creating new 'Fail if not on wired connection' task sequence step
Creating new 'Check Network Connection' task sequence group
Creating new 'Remove incompatible applications' task sequence group
Creating new 'Remove incompatible drivers' task sequence group
Creating new 'Remove/suspend third-party security' task sequence group
Creating new 'Upgrade the operating System' task sequence step
Creating new 'Apply setup-based drivers' task sequence group
Creating new 'Install/enable third-party security' task sequence group
Creating new 'Set Windows default apps and associations' task sequence group
Creating new 'Apply customizations and personalizations' task sequence group
Creating new 'Delete Log Folder' task sequence step
Creating new 'Create Log Folder' task sequence step
Creating new 'Copy Logs' task sequence step
Creating new 'Collect Logs' task sequence group
Creating new 'Run Actions on Failure' task sequence group
Downloading SetupDiag.exe to '\\CB\SOURCES\LOGS'
Creating new 'Run SetupDiag' task sequence step
Creating new 'Delete Log Folder' task sequence step
Creating new 'Create Log Folder' task sequence step
Creating new 'Copy Logs' task sequence step
Creating new 'Collect Logs' task sequence group
Creating new 'Fail task sequence' task sequence step
Task sequence 'Windows 10 upgrade - Task 1' with package ID 'TOR0019F' successfully created
Press any key to continue
```

Overview > Operating Systems > Task Sequences

< Task Sequences 8 items

Icon	Name	Description	Package ID	Date Created
	ESU Pre Req Win 7	This will be for Win 7 client to prep them for future ESU update installation	TOR00192	15-Jan-2020 10:30 AM
	MDT BOOT 8456	This dummy task sequence is to create MDT BOOT package for future use	TOR00023	13-Feb-2019 2:41 PM
	TSBackground Example Steps		TOR0019E	02-Mar-2020 1:30 PM
	Win 10 v1809	This will install Windows 10 v1809 x64 to VM	TOR00035	27-May-2019 9:51 AM
	Win 7 to Win 10 IPU	In place upgrade of Win 7 to Win 10	TOR0017E	14-Oct-2019 3:23 PM
	Windows 10 upgrade - Task 1		TOR0019F	06-Mar-2020 3:47 PM
	Windows 10 v1903	This task seq will upgrade all Windows 10 v1809 to v1903 Enterprise Edition x64	TOR00032	12-May-2019 8:21 AM
	Windows 10 v1909	This package will upgrade existing Windows 10 v1903 to v1909	TOR00185	19-Oct-2019 4:15 AM

Now you have the task sequence ready for deployment to a collection that require in place upgrade from Windows 7 to Windows 10.

Thanks

Ram Lan

6th Mar 2020