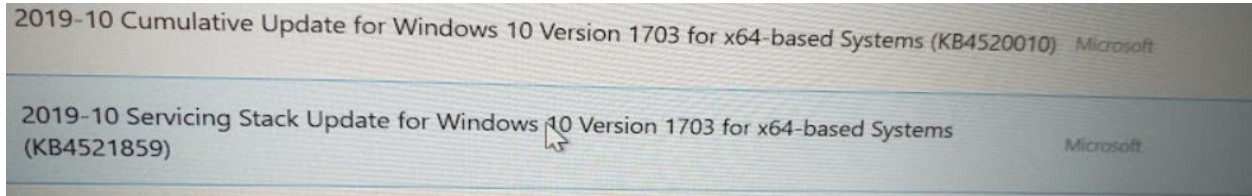


# For RBC Consideration

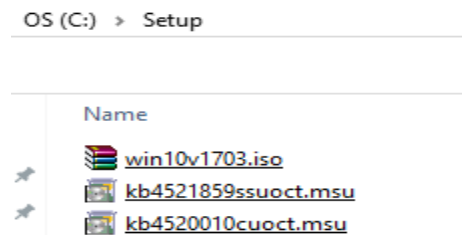
During Windows 10 upgrade, I observed these 2 updates were pushed to each machine after the upgrade. I spent some time on how these 2 updates can be injected into Windows 10 WIM using DISM. Once injected, we can use WIM file within Windows 10 v1.39 task sequence. This will save time post migration for field techs working at various RBC depot.



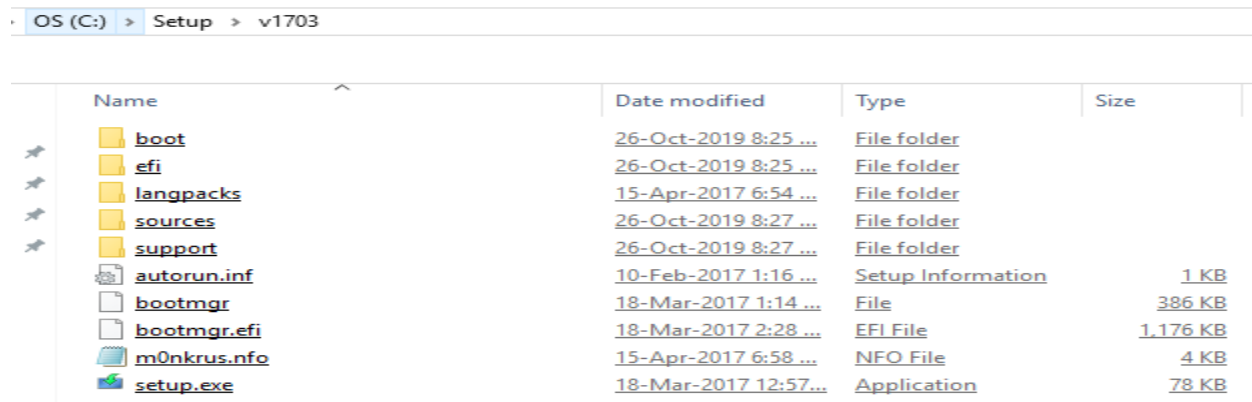
I have downloaded above CU & SSU from Microsoft site. All the files are saved at C:\Setup folder.

I have created these folder structure.

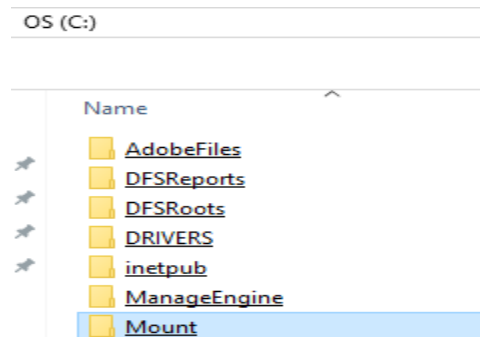
C:\Setup – This is where the ISO of Win 10 v1703 + CU + SSU



C:\Setup\v1703 – This is where the mounted ISO files of Win 10 v1703 are copied.



C:\Mount – This is where updated image will be saved temporarily.



Open PowerShell as Administrator. These are the commands we will be running:

```
Dism /Get-WimInfo /WimFile:C:\Setup\v1703\Sources\install.wim
```

```
Dism /Get-WimInfo /WimFile:C:\Setup\v1703\Sources\install.wim /index:1 - To find out if it ix86 or x64
```

```
Dism /mount-image /imagefile:C:\Setup\v1703\sources\install.wim /index:1 /mountdir:C:\Mount
```

```
Dism /Add-Package /Image:"C:\Mount" /PackagePath="C:\Setup\kb4520010cuoct.msu" /LogPath=C:\Mount\dism.log
```

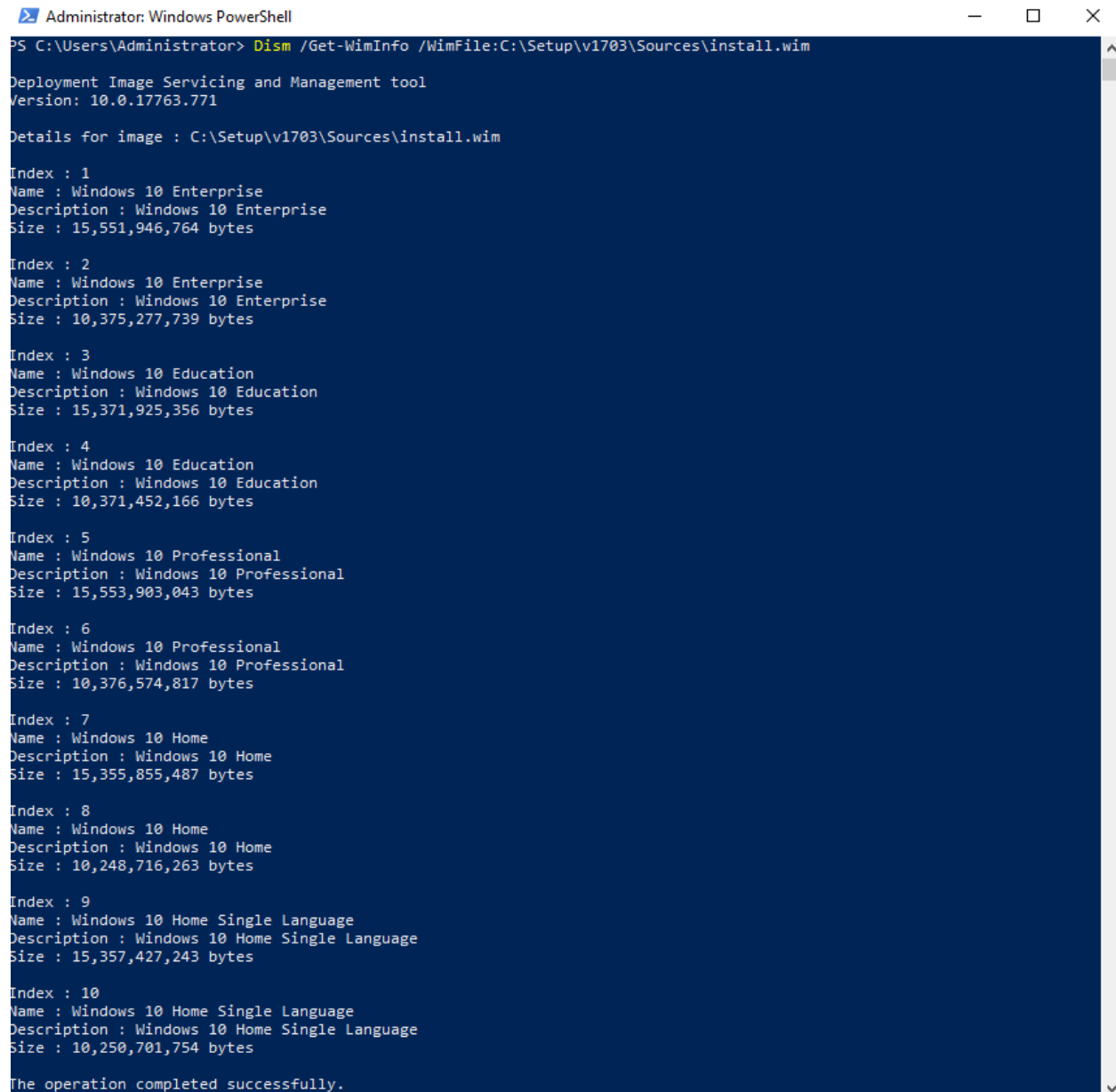
```
Dism /Add-Package /Image:"C:\Mount" /PackagePath="C:\Setup\kb4521859ssuoct.msu" /LogPath=C:\Mount\dism.log
```

```
DISM /Cleanup-Image /Image:"C:\Mount" /StartComponentCleanup /ResetBase /ScratchDir:C:\Temp
```

```
Dism /Get-Packages /image:"C:\Mount"
```

```
Dism /Delete-Image /ImageFile:"C:\Setup\v1703\sources\install.wim" /Index:2 – If you want to remove any Index
```

```
Dism /Unmount-Image /MountDir:"C:\Mount" /Commit
```



```
Administrator: Windows PowerShell
PS C:\Users\Administrator> Dism /Get-WimInfo /WimFile:C:\Setup\v1703\Sources\install.wim
Deployment Image Servicing and Management tool
Version: 10.0.17763.771

Details for image : C:\Setup\v1703\Sources\install.wim

Index : 1
Name : Windows 10 Enterprise
Description : Windows 10 Enterprise
Size : 15,551,946,764 bytes

Index : 2
Name : Windows 10 Enterprise
Description : Windows 10 Enterprise
Size : 10,375,277,739 bytes

Index : 3
Name : Windows 10 Education
Description : Windows 10 Education
Size : 15,371,925,356 bytes

Index : 4
Name : Windows 10 Education
Description : Windows 10 Education
Size : 10,371,452,166 bytes

Index : 5
Name : Windows 10 Professional
Description : Windows 10 Professional
Size : 15,553,903,043 bytes

Index : 6
Name : Windows 10 Professional
Description : Windows 10 Professional
Size : 10,376,574,817 bytes

Index : 7
Name : Windows 10 Home
Description : Windows 10 Home
Size : 15,355,855,487 bytes

Index : 8
Name : Windows 10 Home
Description : Windows 10 Home
Size : 10,248,716,263 bytes

Index : 9
Name : Windows 10 Home Single Language
Description : Windows 10 Home Single Language
Size : 15,357,427,243 bytes

Index : 10
Name : Windows 10 Home Single Language
Description : Windows 10 Home Single Language
Size : 10,250,701,754 bytes

The operation completed successfully.
```

```
PS C:\Users\Administrator> Dism /Get-WimInfo /WimFile:C:\Setup\v1703\Sources\install.wim /index:1

Deployment Image Servicing and Management tool
Version: 10.0.17763.771

Details for image : C:\Setup\v1703\Sources\install.wim

Index : 1
Name : Windows 10 Enterprise
Description : Windows 10 Enterprise
Size : 15,551,946,764 bytes
WIM Bootable : No
Architecture : x64
Hal : <undefined>
Version : 10.0.15063
ServicePack Build : 0
ServicePack Level : 0
Edition : Enterprise
Installation : Client
ProductType : WinNT
ProductSuite : Terminal Server
System Root : WINDOWS
Directories : 24149
Files : 120786
Created : 20-Mar-2017 - 12:20:42 AM
Modified : 26-Oct-2019 - 9:11:03 AM
Languages :
    en-US (Default)
    ru-RU

The operation completed successfully.
```

```
PS C:\Users\Administrator> Dism /mount-image /imagefile:C:\Setup\v1703\Sources\install.wim /index:1 /mountdir:C:\Mount

Deployment Image Servicing and Management tool
Version: 10.0.17763.771

Mounting image
[=====100.0%=====]
The operation completed successfully.
```

```
PS C:\Users\Administrator> Dism /Add-Package /Image:"C:\Mount" /PackagePath="C:\Setup\kb4520010cuoct.msu" /LogPath=C:\Mount\dism.logDism

Deployment Image Servicing and Management tool
Version: 10.0.17763.771

Image Version: 10.0.15063.0

Processing 1 of 1 - Adding package C:\Setup\kb4520010cuoct.msu
[=====100.0%=====]
The operation completed successfully.
PS C:\Users\Administrator> █
```

```
S C:\Users\Administrator> Dism /Add-Package /Image:"C:\Mount" /PackagePath="C:\Setup\kb4521859ssuoc.msu" /LogPath=C:\Mount\dism.log

Deployment Image Servicing and Management tool
Version: 10.0.17763.771

Image Version: 10.0.15063.2104

Processing 1 of 1 - Adding package C:\Setup\kb4521859ssuoc.msu
[=====100.0%=====]
The operation completed successfully.
S C:\Users\Administrator> █
```

```
PS C:\Users\Administrator> DISM /Cleanup-Image /Image:"C:\Mount" /StartComponentCleanup /ResetBase /ScratchDir:C:\Temp

Deployment Image Servicing and Management tool
Version: 10.0.17763.771

Image Version: 10.0.15063.2104

[=====100.0%=====]
The operation completed successfully.
```

```
Package Identity : Package_for_KB4521859~31bf3856ad364e35~amd64~~15063.2104.1.0
State : Installed
Release Type : Security Update
Install Time : 26-Oct-2019 4:33 PM

Package Identity : Package_for_RollupFix~31bf3856ad364e35~amd64~~15063.2108.1.7
State : Installed
Release Type : Security Update
Install Time : 26-Oct-2019 2:29 PM
```

```

PS C:\Users\Administrator> Dism /Unmount-Image /MountDir:"C:\Mount" /Commit

Deployment Image Servicing and Management tool
Version: 10.0.17763.771

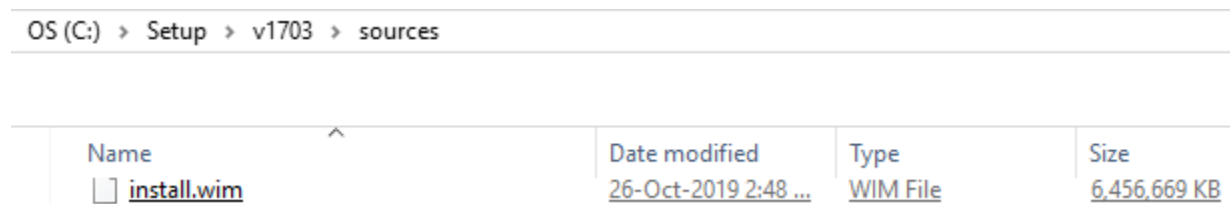
Saving image
[=====100.0%=====]
Unmounting image
[=====100.0%=====]
The operation completed successfully.
PS C:\Users\Administrator>

```

This complete the whole process of injecting CU and SSU to WIM using DISM. We can compare the size of Index 1 to make sure the CU and SSU are included. Here is the comparison

BEFORE INJECTION (CU + SSU)	AFTER INJECTION (CU + SSU)
<pre> Index : 1 Name : Windows 10 Enterprise Description : Windows 10 Enterprise Size : 15,551,946,764 bytes </pre>	<pre> Index : 1 Name : Windows 10 Enterprise Description : Windows 10 Enterprise Size : 16,419,627,167 bytes </pre>

We can copy Install.WIM to Configuration Manager Server and use it with the task sequence.



Thanks

**Ram Lan**  
**26<sup>th</sup> Oct 2019**