



Additional Information to Add Windows 10 1709 BaseWIMs, Language Packs and Features on Demand

WimAsAService

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20.10.2017
Version 0.1



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Additional Information to Add Windows 10 1709 BaseWIMs, Language Packs and Features on Demand *baseVISION AG*

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1 Purpose of this document

This document will explain how to add Windows 10 1709 content to WimAsAService for our OnPremise customer.

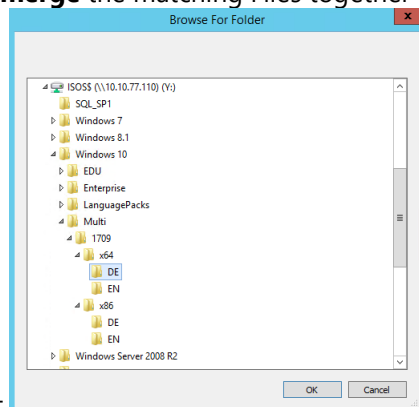
The topics cover in this document are:

- 1709 baseWIM implementation
- Language Packs
- Features on Demand

2 Overview

2.1 What's New

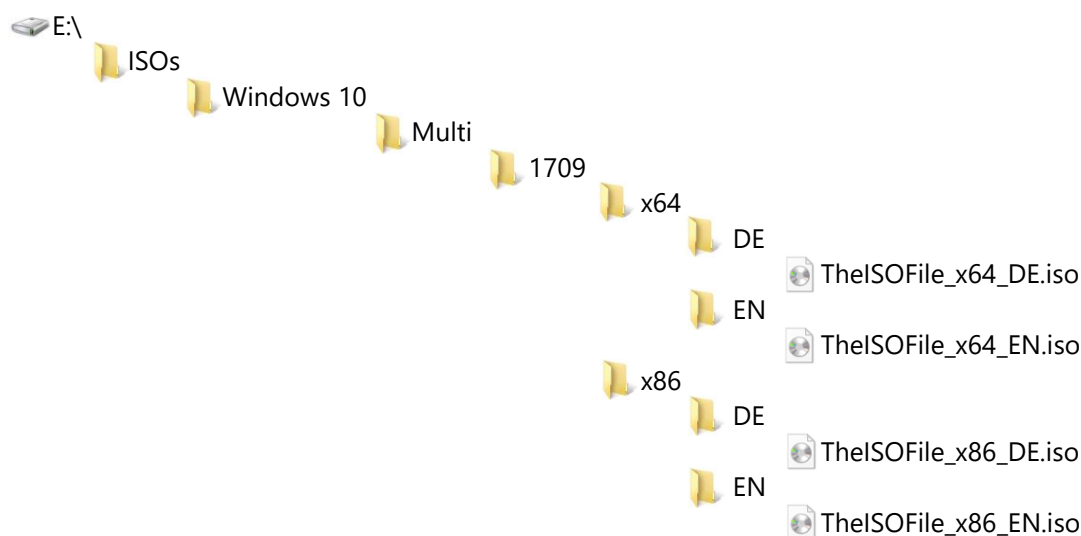
Microsoft released a new Version of Windows 10. The Build Number is 1709. Until yet you can't Download the new Windows in different Editions. So there is only one Download called **"Windows 10 (multi-edition) VL"** which contains the Editions Pro, Pro N, Education, Education N, Enterprise and Enterprise N. You need to Download this multi-edition Installation media and save it to the File System like explained later. Also new is that the Features on Demand comes in 2 parts for each platform (x64/x86). After downloading the Features on Demand you have to **merge** the matching Files together to implement them into MDT. This is also Explained



later in the Document.

2.2 How to store your 1709 ISO' files

This structure is just an example how we do it. But you are free to store them however you like. There is no technical dependence on that structure model. **It is important to sperate the x64 and the x86 Version of the ISO File. Otherwise it might not import both platforms into MDT.**



2.3 Required scripts

The Required scripts are stored in the WimAsAServiceLogic folder.
Usually under E:\WimAsAServiceLogic.

The following scripts are provided, to help adding the ISO files to WimAsAService. When importing Files for a new Windows Version, you need to follow the order described below.

Order	Name	Description
1	AutoImportBaseWIM.ps1	Adds Multiple ISO files of the selected folder and its subfolders to MDT.
2	AutoImporterLanguagePacks.ps1	Adds the cab files from the selected ISO to a folder for the selected baseWIM.
3	AutoImporterFeaturesOnDemand.ps1	Adds the cab files from the selected ISO to a folder for the selected baseWIM.

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3 Usage of the scripts

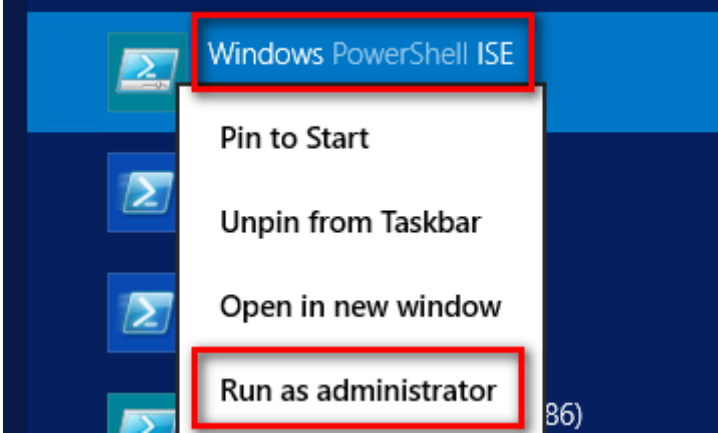

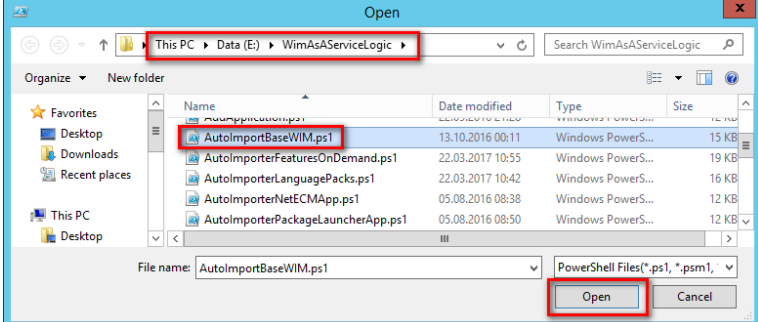
Attention: All those scripts need to be opened in a PowerShell ISE that is running with administrator rights.

3.1 AutoImportBaseWIM.ps1

Attention: This script imports the baseWIM ISOs stored in the selected folders and all of its subfolders. The choice of the folder should be well-considered and double importing of the same WIM should be prevented.

Attention: You have to execute these steps 4 Times to add 2 Languages for Example EN and DE in x64 and x86 Platform. Otherwise some ISOs will be skipped even if they are in the same folder.

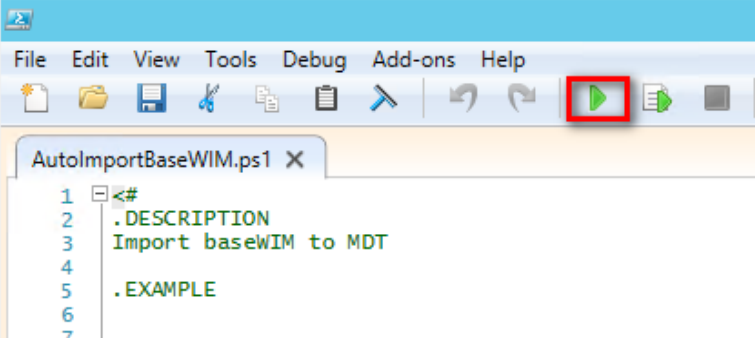
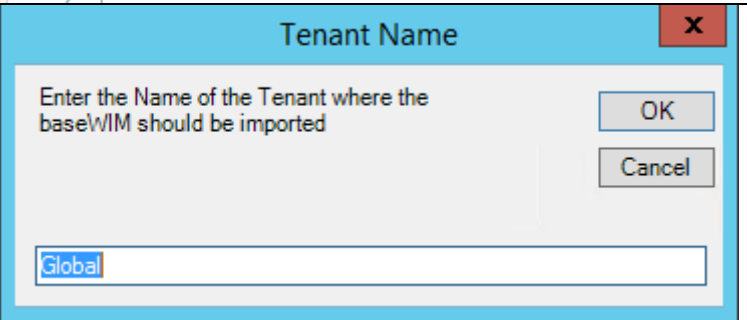
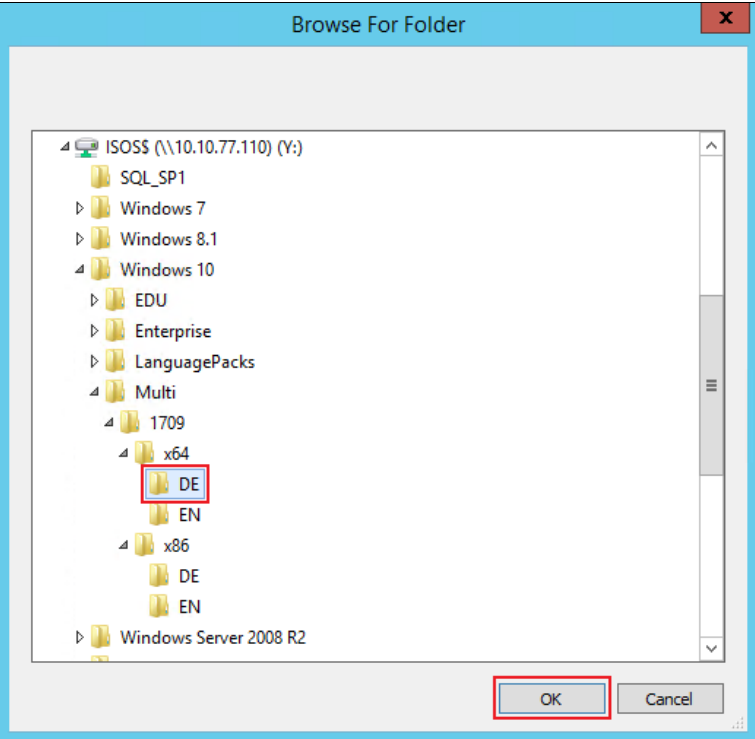
This script writes to the following logfile:
"E:\WimAsAServiceLogic_Logs\AutoImportBaseWIM.log"

Step	Screenshot	Task
1.		Open PowerShell ISE with administrator privileges.
2.		Click on the "Open" button.
3.		Browse to your WimAsAServiceLogic folder and select "AutoImportBaseWIM.ps1". Click on the "Open" button.

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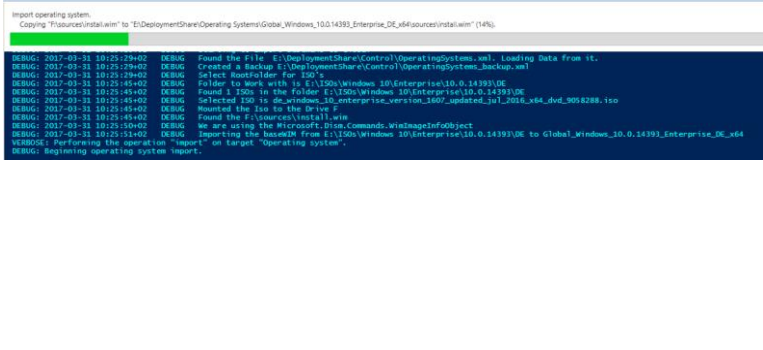
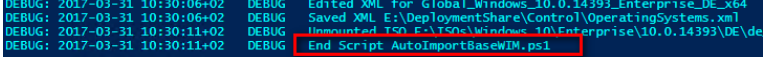
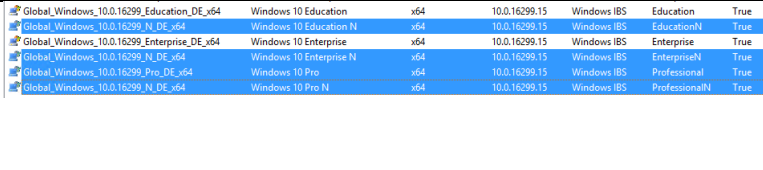
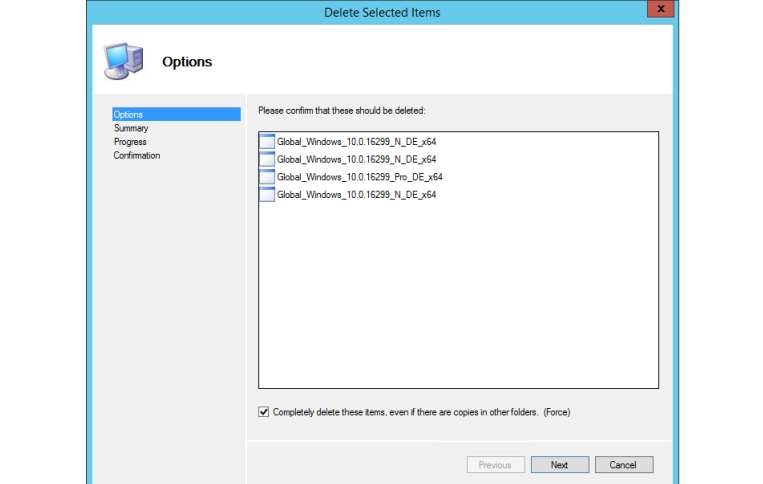
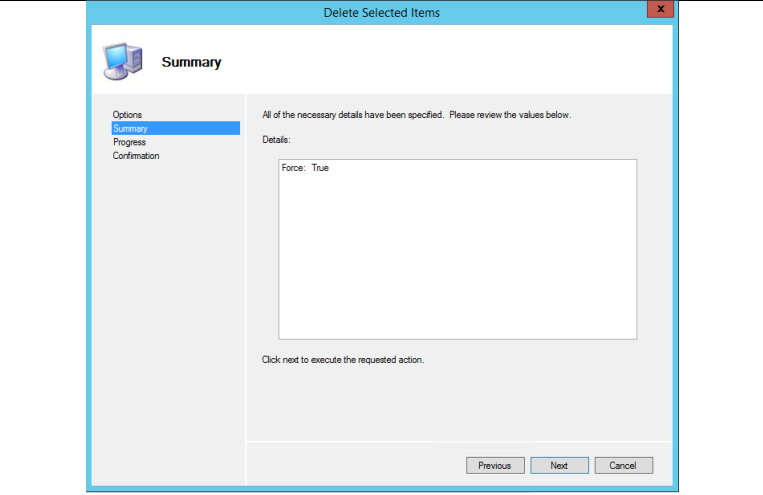
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4.		Click on the "Play" button.
5.		<p>Here you can tell the script for which Tenant it should import the WIM files.</p> <p>"Global" grants all Tenants access to that baseWIM.</p> <p>If you want to restrict that baseWIM to one Tenant, enter its name here.</p> <p>When you're ready to continue click on "OK".</p> <p>Attention: On your screen this window/pop up could be covered by the ISE Window.</p>
6.		<p>Now browse to the folder that contains the ISO file for the Windows 10 1709 baseWIM you want to add.</p> <p>When you're ready to continue click on "OK".</p> <p>Attention: Make sure to only have one multi-edition .iso is inside the Folder. It might be that not both of it will be added to MDT if two .iso files are in the Folder.</p> <p>Attention: The script will also work with ISO files in subfolder of the selected folder. Not only with files in the directly selected folder.</p>

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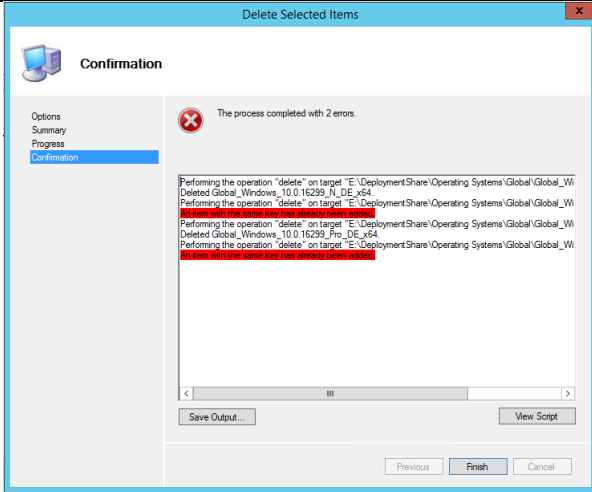
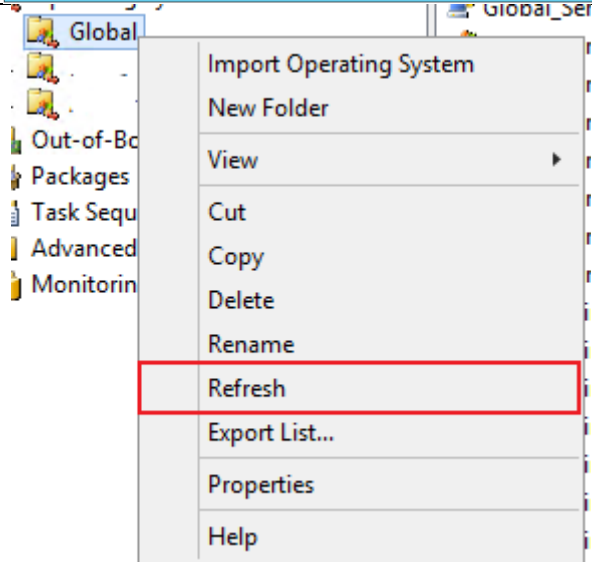
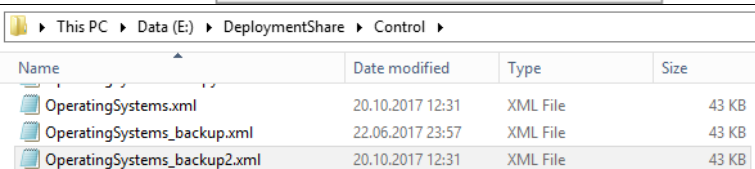
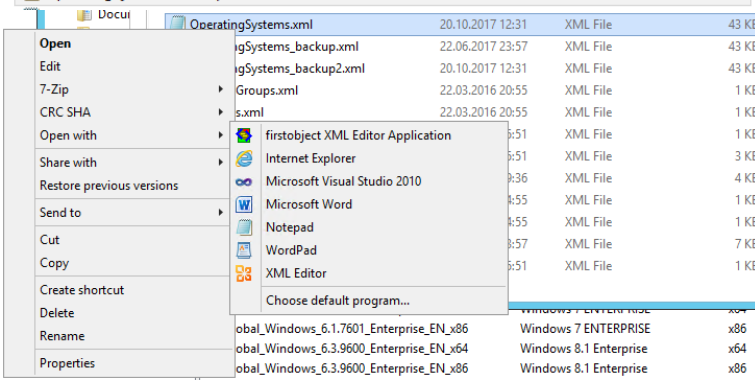
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7.		<p>Next, the script imports all the install WIMs to MDT. This will take some time please be patient.</p> <p>Additional information: The script is automatically mounting each ISO to a virtual CD-ROM Drive and is unmounting it again once it has imported the WIMs from it.</p>
8.		<p>Once the script is finished it will tell you.</p>
9.		<p>In the Deployment Workbench under Global Operating System you can see that all of the edition has been added so you need to delete them.</p>
10.		<p>Verify that the right editions of Windows 10 will be deleted. Check the “Completely delete these items, even if there are copies in other folders. (Force)” Option.</p>
11.		<p>Click “Next”.</p>

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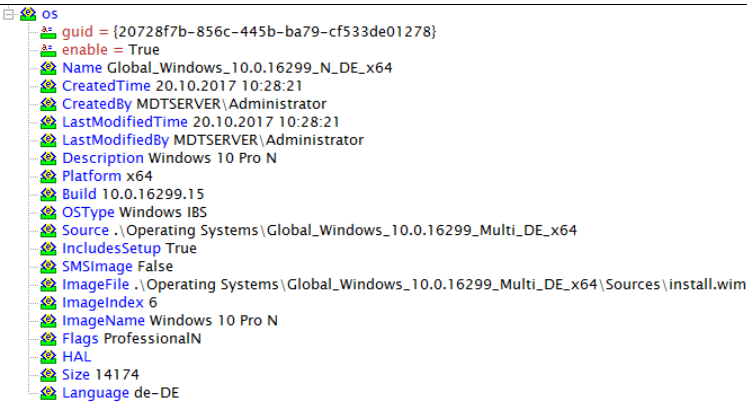
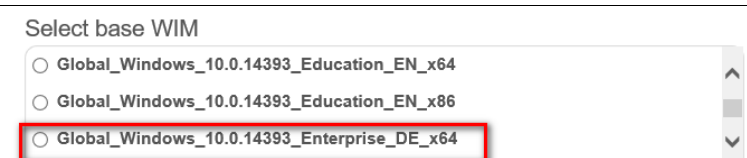
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12.		These errors can be ignored. Click "Finish" .
13.		Click "Refresh" on the Global Operating Systems Folder to make sure that the Operating Systems has been removed.
14.		Navigate to "DeploymentShare\Control\" make a copy of the "OperatingSystems.xml" File.
15.		Open the "OperatingSystem.xml" with the Editor of your Choice.

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16.	 <p>os guid = {20728f7b-856c-445b-ba79-cf533de01278} enable = True Name Global_Windows_10.0.16299_N_DE_x64 CreatedTime 20.10.2017 10:28:21 CreatedBy MDTSERVER\Administrator LastModifiedTime 20.10.2017 10:28:21 LastModifiedBy MDTSERVER\Administrator Description Windows 10 Pro N Platform x64 Build 10.0.16299.15 OSType Windows IBS Source .\Operating Systems\Global_Windows_10.0.16299_Multi_DE_x64 IncludesSetup True SMSImage False ImageFile .\Operating Systems\Global_Windows_10.0.16299_Multi_DE_x64\Sources\install.wim ImageIndex 6 ImageName Windows 10 Pro N Flags ProfessionalN HAL Size 14174 Language de-DE</p>	Remove every Entry of the Operating Systems you previously removed. In this Example the deleted Operating Systems were Global_Windows_10.0.16299_N_DE_x64, Global_Windows_10.0.16299_N_DE_x64, Global_Windows_10.0.16299_Pro_DE_x64 and Global_Windows_10.0.16299_N_DE_64.
17.	 <p>Select base WIM</p> <ul style="list-style-type: none"><input type="radio"/> Global_Windows_10.0.14393_Education_EN_x64<input type="radio"/> Global_Windows_10.0.14393_Education_EN_x86<input checked="" type="radio"/> Global_Windows_10.0.14393_Enterprise_DE_x64	You can now log on to the WimAsAService website and add a new image type. Under "Select base WIM" you should now be able to find the WIM files you just added. Make sure that the unwanted OS are not in the selection.

3.2 AutoImporterLanguagePacks.ps1

There were no changes made in the Language Packs. Consult the normal Customer Document to add Language Packs to the Windows 10 1709 baseWIMs.

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3.3 AutoImporterFeaturesOnDemand.ps1

3.3.1 Merge the .iso Files

The Features on Demand for Windows 10 1709 are delivered in 2 parts for each OS Architecture (x64 and x86). So you have to merge these two ISO Files to import the Features on Demand. You need a tool like 7-zip to extract the ISO to the same Folder. If both ISOs, for Example x64 Part1 and Part 2, were extracted to the same folder, you have to make a ISO out of this folder. We did that with the Tool Folder2ISO. If the ISO File has been created you can use the normal FeaturesOnDemand Importer Skript to Import the ISO file, which has been merged.

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4 Version history

Wann	Version	Wer	Beschreibung
31.03.0217	0.1	NBO	First Version