

WimAsAService

Pascal Berger 02.05.2018 Version 2.0



Datum: 02.05.2018 Autor: Pascal Berger Version: 2.0

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1 Purpose of this document

This document will explain how to add different content to WimAsAService for our OnPremise customer. The topics covered in this document are:

- baseWIMs
- Language Packs
- Features on Demand

2 Overview

2.1 What to do first

Bevor you can add anything to WimAsAService you need to download it from Microsoft. We recommend that you use your Volume Licensing Portal as the source for your downloads.

Attention: When it comes to Language Packs, we recommend that you download the ISO file that contains both architectures, even if you use only one.

Features on Demand, are used to add support for speech recognition, handwriting recognition, text-tospeech, optical character recognition, spell checking, text prediction, word breaking, and hyphenation if available for the language.

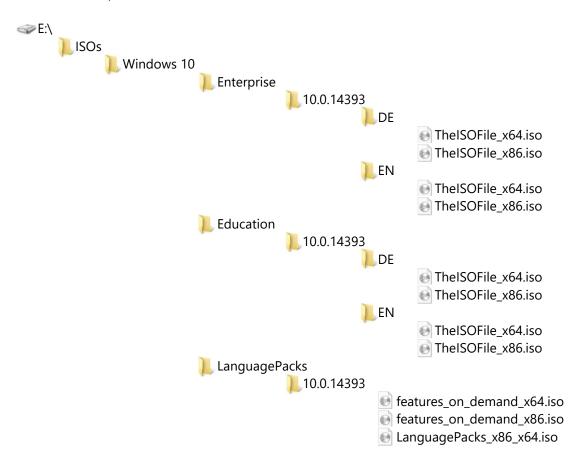
Read more here:

 $\underline{https://msdn.microsoft.com/en-us/windows/hardware/commercialize/manufacture/desktop/features-on-demand-v2--capabilities}$

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2.2 How to store your 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.



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 Important Information for Windows 10 1803 (10.0.17134)

3.1 Update to at least Version 2.0.4.2

Attention: It is very Important that you first update to at least the Version 2.0.4.2. Because in this Version we made fixes to the AutoImportBaseWIM.ps1 and the AutoImporterFeaturesOnDemand.ps1 so that they support Windows 10 1803.

3.2 Merge the .iso Files of the Features on demand

The Features on Demand for Windows 10 1803 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 new 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.

4 Usage of the scripts

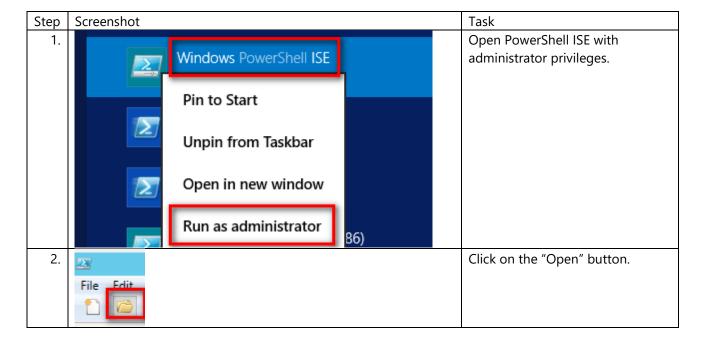
Attention: All those scripts need to be opened in a PowerShell ISE that is running with administrator rights.

4.1 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.

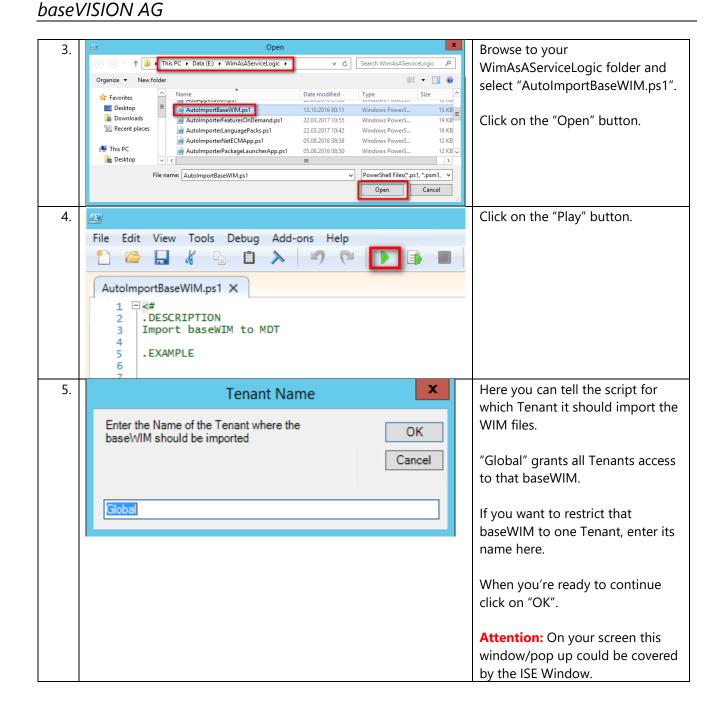
This script writes to the following logfile:

"E:\WimAsAServiceLogic_Logs\AutoImportBaseWIM.log"

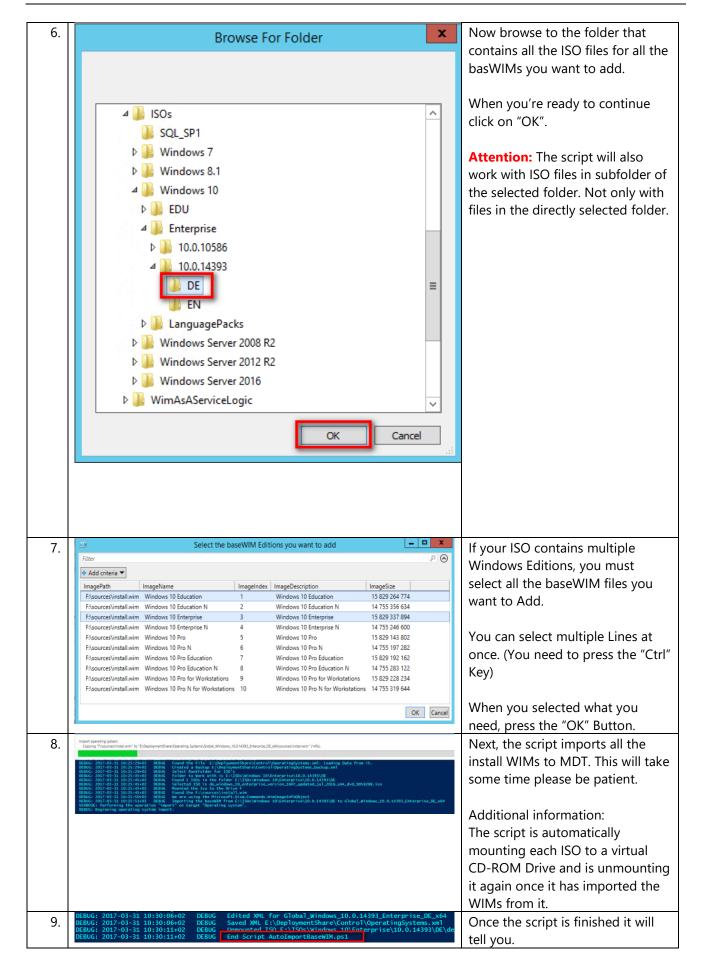


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Select base WIM

Global_Windows_10.0.14393_Education_EN_x64
Global_Windows_10.0.14393_Education_EN_x86

Global_Windows_10.0.14393_Enterprise_DE_x64

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 Versions are not visible in the selection.

4.2 AutoImporterLanguagePacks.ps1

Attention: The Language Packs are the same for different Windows SKU's (e.g. Enterprise and Education) but they are different between Builds (Example 1607 and 1703) and OS Architectures (x64 and x86). So, make sure you have the right Language Pack ISO for your **Build** and for your **Architectures**.

Windows Server and Windows Clients also need different ISO files, because they are different Builds even if the Build numbers are identical.

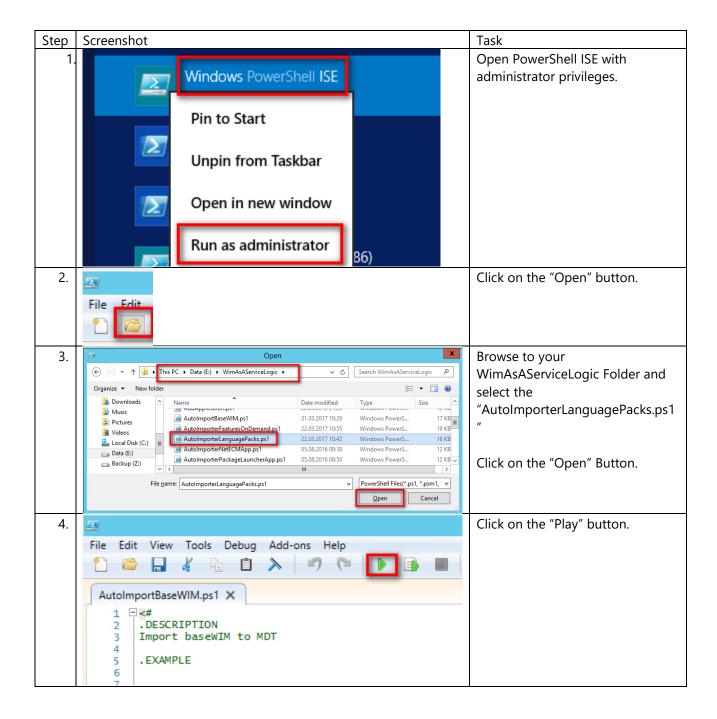
We recommend that for Windows Clients you always download the ISO that contains the Language Packs for both Architectures, even if only one is required.

You must repeat the following steps for every Build (remember Server and Client are different Builds) and every Architecture Language Packs are required for. But you don't need to repeat it for different SKU's (e.g. Enterprise and Education)

This script writes to the following logfile:

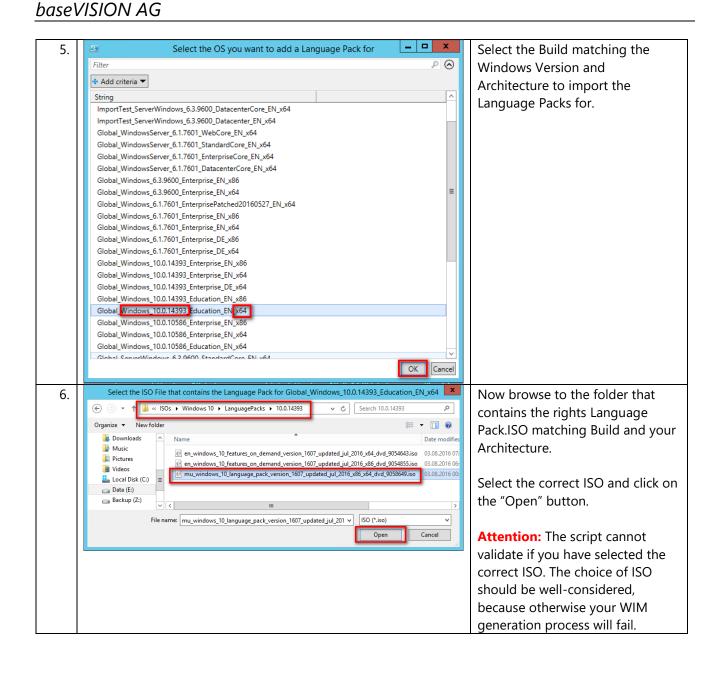
"E:\WimAsAServiceLogic_Logs\AutoImporterLanguagePacks.log"

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Next the script is mounting the selected ISO as a virtual CD-ROM. It is then copying the CAB files for the Language Packs to the folder: "E:\DeploymentShare\Scripts\LP\ %YourSelectedBuild%\%YourSelec tedArchitecture%" X Cut Mew item ▼ Open 1 Select all $\times =$ W... Copy path ₹ Easy access ▼ Edit Select nor Copy Delete Rename Properties Invert sele Paste shortcut * Favorites af-za Desktop 31.03.2017 11:04 File folder 🐌 Downloads am-et 31.03.2017 11:04 File folder Recent places 📗 ar-sa 31.03.2017 11:04 File folder 📗 as-in 31.03.2017 11:04 This PC 📗 az-latn 31.03.2017 11:04 File folder Desktop ll be-by 31.03.2017 11:04 File folder Documents ll bg-bg 31.03.2017 11:04 File folder 🝌 Downloads 31.03.2017 11:04 File folder 📗 bn-bd 8. Once the script is fished, it will tell Attention: Remember, if you also need Language Packs for the same Build, but in a different Architecture you must repeat the Steps 4 to 8 again and select a WIM with the matching Architecture in Step 5 and the correct ISO in step 6. You can now log on to the Select base WIM WimAsAService website and add a ○ Global_Windows_10.0.14393_Education_EN_x64 new image type. Select the base ○ Global_Windows_10.0.14393_Education_EN_x86 WIM you added the Language ─ Global_Windows_10.0.14393_Enterprise_DE_x64 Packs for. Then scroll down to the Language packs Language Pack section, You Available should now be able to find the Language Packs you just added. Q af-za am-et ar-eg ar-sa as-in az-latn-az

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4.3 AutoImporterFeaturesOnDemand.ps1

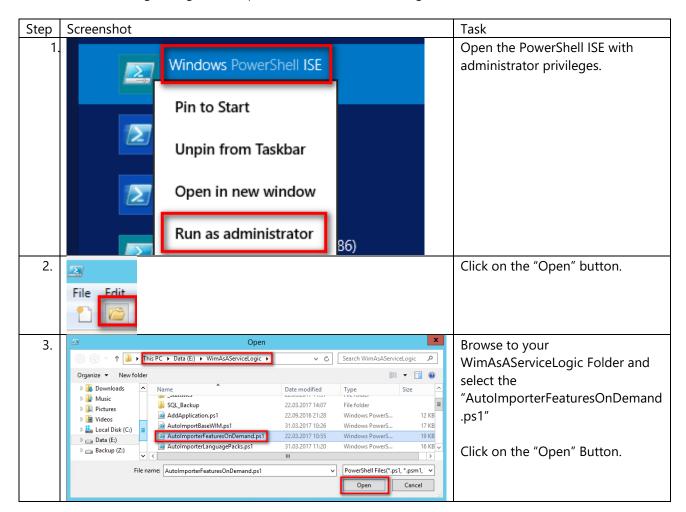
Attention: The Features on Demand are the same for different Windows SKU's (e.g. Enterprise and Education) but they are different between **Builds** (e.g. 1607 and 1703) and **OS Architectures** (x64 and x86). So, make sure you have the right Language Pack ISO for your Build and Architectures.

Windows server and Windows clients also require different ISO files, because they are different Builds, even if the Build numbers are identical.

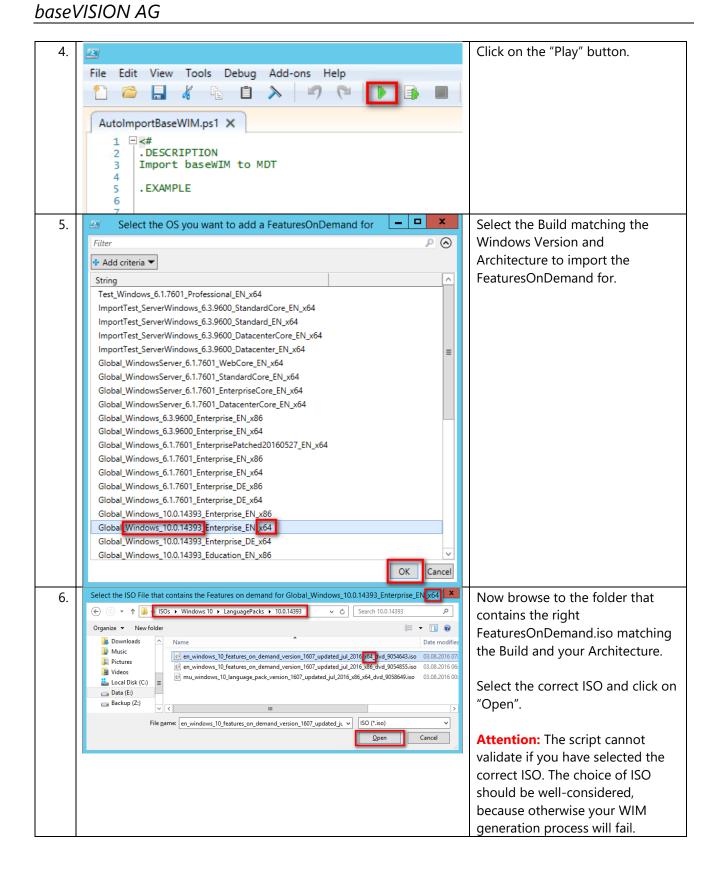
You will have to repeat the following steps for every Build (remember Server and Client are different Builds) and every Architecture you need features on demand for. But you don't need to repeat it for different SKU's (e.g. Enterprise and Education)

This Script writes to the following logfile:

"E:\WimAsAServiceLogic_Logs\AutoImporterFeaturesOnDemand.log"



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The script is now mounting the selected ISO as a virtual CD-ROM. It is then copying the CAB files for the Language Packs to the folder: "E:\DeploymentShare\Scripts\LP\ %YourSelectedBuild%\%YourSelec tedArchitecture%\%TheLanguage Microsoft-Windows-LanguageFeatures-Basic-de-de-Package.cab %\Features" 🖺 Microsoft-Windows-LanguageFeatures-Handwriting-de-de-Package.cab ces Microsoft-Windows-Language Features-OCR-de-de-Package.cabMicrosoft-Windows-LanguageFeatures-Speech-de-de-Package.cab 🖺 Microsoft-Windows-LanguageFeatures-TextToSpeech-de-de-Package.... Once the script has finished, it will 8. tell you. **Attention:** Remember if you also need FeaturesOnDemand for the same Build, but in a different Architecture, you must repeat the steps 4 to 8 again and select a WIM with the other Architecture in Step 5 and the correct ISO in step 6.

5 Version history

Wann	Version	Wer	Beschreibung
31.03.0217	1.00	PBE	First Version
02.05.2018	2.00	PBE	Added Information for Windows 10 1803