SERVICE WINDOWS 7 IMAGE USING DISM

Image

For the purpose of this demo, we will be working on image which we will get from the Windows 7 installation DVD. In our case we have copied **install.wim** image from the Windows 7 installation DVD (**[DVD drive]:\sources\install.wim**) to the **C:\images**\ folder. In that folder we have also created the '**mount**' folder which we will use to mount our image.



Image 204.1 - Folders

Next we need to open Deployment Tools Command Prompt with elevated privileges. To do that go to **Start > All Programs > Microsoft Windows AIK > Deployment Tools Command Prompt** (Deployment Tools Command Prompt comes with WAIK for Windows 7).

Mounting

Next we will mount our image. To do that we will enter the following

command: dism /mount-wim /wimfile:c:\images\install.wim /index:5

/mountdir:c:\images\mount. 'DISM' means that we are using DISM to mount our

image. /mount-wim parameter means that we want to mount existing image.

With /wimfile parameter we specify the location of our image.

With **/index** parameter we specify which edition we want to mount (Ultimate in our case). With **/mountdir** parameter we specify where do we want to mount our image.



Image 204.2 - Mounting in Progress

Working with Features

Once our image is mounted we will check features that are available on our mounted image. To do that we will use the following command: **dism** /**image:c:\images\mount /get-features**. The /**image** parameter is used to specify the location of our mounted image. The/**get-features** parameter is used to check for available features.



Image 204.3 - Available Features List

Different editions of Windows will have different features available. Among other things we have a feature that is called Minesweeper. This is a game that is available for free in Windows and it is currently enabled. Let's gather more information about that feature. We will use the following command: **dism** /**image:c:\images\mount /get-featureinfo /featurename:Minesweeper**.

Remember that feature names are case-sensitive.



Image 204.4 - Minesweeper Feature

Now we will disable that feature. To do that we will enter the following command: **dism /image:c:\images\mount /disable-feature**

/featurename:Minesweeper.



Image 205.5 - Feature Disabled

If we want to enable some feature we can use the **/enable-feature** option. In our case Minesweeper is disabled on our mounted image so it will not be available by default once we install our Windows 7 Ultimate edition. We can run the **dism** /**image:c:\images\mount /get-features** command to check for available features again. Notice that the status of the Minesweeper feature is now 'Disable Pending'.

Feature	Name : SpiderSolitaire
State :	Enabled
Feature	Name : Hearts
State :	Enabled
Feature	Name : FreeCell
State :	Enabled
Feature	Name : Minesweeper
State :	Disable Pending
Feature	Name : PurblePlace
State :	Enabled
Feature	Name : Chess
State :	Enable Pending
Feature	Name : Shanghai
State :	Enable Pending
Feature	Name : Internet Games
State :	Enable Pending
Feature	Name : Internet Checkers

Image 204.6 - Feature Status

Changing the Time Zone

We will change our time zone to the Central European Standard Time. To set the

time zone we will use the following command: dism /image:c:\images\mount

/set-timezone:"Central European Standard Time". For a complete list of time-

zone strings see the Unattend Setup Reference or use the tzutil command with the

'/I' parameter on a running Windows 7 machine.

Administrator: Deployment Tools Command Prompt	-
C:\Program Files\Windows AIK\Tools\PETools \tzutil (UTC-12:00) International Date Line West Dateline Standard Time	1
(UTC-11:00) Coordinated Universal Time-11 UTC-11	
(UTC-11:00) Samoa Samoa Standard Time	
(UTC-10:00) Hawaii Hawaiian Standard Time	
(UTC-09:00) Alaska Alaskan Standard Time	
(UTC-08:00) Baja California Pacific Standard Time (Mexico)	
(UTC-08:00) Pacific Time (US & Canada) Pacific Standard Time	
(UTC-07:00) Arizona US Mountain Standard Time	

Image 204.7 - TZUTIL



Image 204.8 - Time Zone Changed

Adding Drivers

We have added a new folder called 'addons' to the C:\images\ folder. Here we have copied the driver that we want to add to the image driver store. In our case we want to add drivers for Samsung ML1640 printer.

ingainate + infolute	in library Share with New folder		Bac		
Favorites	Name	Date modified	Type	Size	
E Desktop	S coinst.dll	1/11/2008 5:15 AM	Application extens	64 KB	
Downloads	💿 coinst	1/11/2008 5:15 AM	Application	148 KB	
1 Recent Places	🗟 itdrv.dll	1/11/2008 5:15 AM	Application extens	955 KB	
	😭 itdrvab	1/11/2008 5:15 AM	Compiled HTML	32 KB	
对 Libraries	itdrvab.dat	1/11/2008 5:15 AM	DAT File	72 KB	
Documents	📝 itdrvbp	1/11/2008 5:15 AM	Compiled HTML	32 KB	
J Music	itdrvbp.dat	1/11/2008 5:15 AM	DAT File	80 KB	
Pictures	itdrvcm.ctd	1/11/2008 5:15 AM	CTD File	38 KB	
Videos	itdrvcm.dll	1/11/2008 5:15 AM	Application extens	200 KB	
	😰 itdrvcp	1/11/2008 5:15 AM	Compiled HTML	32 KB	
🕹 Homegroup	itdrvcp.dat	1/11/2008 5:15 AM	DAT File	63 KB	
	itdrvct	1/11/2008 5:15 AM	Compiled HTML	32 KB	
Computer	itdrvct.dat	1/11/2008 5:15 AM	DAT File	63 KB	
	1 itdrvcz	1/11/2008 5:15 AM	Compiled HTML	33 KB	
🗣 Network	itdrvcz.dat	1/11/2008 5:15 AM	DAT File	76 KB	
	👔 itdrvdn	1/11/2008 5:16 AM	Compiled HTML	32 KB	
	itdrvDN.dat	1/11/2008 5:16 AM	DAT File	77 KB	
	1	m			•

Image 204.9 - Samsung Drivers

To add our driver we will run the following command: dism

/image:c:\images\mount/adddriver:''C:\images\addons\SamsungML1640\ssp2 m.inf''. Notice when specifying the path to our drivers, we also specified the Setup Information file (.inf extension). In our case that file is ssp2m.inf.

an Administrator: Deployment Tools Command Prompt		×
C:\Program Files\Windows AIK\Tools\PETools>dism /image:c:\inages\m er:"C:\inages\addons\SansungHLL640\ssp2n.inf"	iount add-di	eso 着
Deployment Image Servicing and Management tool Version: 6.1.7600.16385		700
Image Version: 6.1.7600.16385		
Found 1 driver package(s) to install. Installing 1 of 1 - C:\images\addons\SamsungML1640\ssp2m.inf: The was successfully installed. The operation completed successfully.	driver packs	age
C:\Program Files\Windows AIK\Tools\PETools>_		

Image 204.10 - Driver Installed

Driver content has been copied to the driver store successfully. If we enter the

command dism /image:c:\images\mount /get-drivers, we can see all third party

drivers installed in our image.



Image 204.11 - List of Drivers

Notice that our new driver now has a published name: **oem1.inf**. Below that we can see the original file name (sspm.inf), class name (Printer), provider name (Samsung), date and version.

Unmounting Image

We have made all changes that we wanted so we are ready to unmount our image.

To do that we will enter the following command: dism /unmount-wim

/mountdir:c:\images\mount /commit. Be sure to exit folder that is used for mounting in Explorer.



Image 204.12 - Unmounting Successfull

Notice the /commit parameter. It is used to save all changes that we made to our

image. If we don't want to save changes can use the/discard parameter.

Remember

Using DISM we can service existing images. Before we can do anything we have to mount our image. After that we can work with features, drivers, etc. DIMS commands are not case sensitive, but feature names are.

Commands that are mentioned in this article

• dism /mount-wim /wimfile:c:\images\install.wim /index:5

/mountdir:c:\images\mount - mount 'install.wim' image which is located in 'c:\images\' folder, edition with index number 5 (which is Ultimate), to the 'c:\images\mount' folder

- dism /image:c:\images\mount /get-features check features on mounted image located in 'c:\images\mount' folder
- dism /image:c:\images\mount /get-featureinfo /featurename:Minesweeper get detailed information about 'Minesweeper' feature on mounted image located in 'c:\images\mount' folder
- dism /image:c:\images\mount /disable-feature /featurename:Minesweeper disable 'Minesweeper' feature on mounted image which is located in 'c:\images\mount' folder

- dism /image:c:\images\mount /set-timezone:"Central European Standard
 Time" change the time zone of the mounted image located in
 'c:\images\mount\' folder to the 'Central European Standard Time'
- tzutil /l see a complete list of time-zone strings (enter in Command Prompt)
- dism /image:c:\images\mount /add-

driver:"C:\images\addons\SamsungML1640\ssp2m.inf" - add 'ssp2m.inf' driver to the mounted image located in 'c:\images\mount' folder

- dism /image:c:\images\mount /get-drivers see all third party drivers available on mounted image
- dism /unmount-wim /mountdir:c:\images\mount /commit unmount image and commit all changes

Paths that are mentioned in this article

- [DVD drive]:\sources\install.wim image location on the Windows 7 installation DVD
- C:\images\ folder in which we have copied install.wim image
- **C:\images\mount**\ folder which we used to mount our image

Source: http://www.utilizewindows.com/7/deployment/204-service-windows-7image-using-dism