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Creating Windows UEFI Boot-Stick in Windows

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In this article you will find information about how you can create a **UEFI-Windows-Boot-Stick** in Windows.

To create a UEFI Boot-Stick, the USB stick must first be formatted to FAT 32.

This is easiest with the "Diskpart" tool, which was implemented directly in the Windows command prompt.

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Preparing the USB Stick

In order to use DiskPart, open the command prompt as an administrator and then follow these instructions:

1. Enter the following command in the CMD window:
 - **diskpart**
2. With this command you can display the list of drives.
 - **list disk**
3. Now, identify your USB stick and enter the following command as a number (instead of "#"):
 - **select disk #** example
4. You can delete all existing partitions from the USB stick with this command:
 - **clean**
5. With this chain of command, a new partition is created, then selected, activated and then formatted to FAT32. A drive is subsequently assigned when the procedure is completed:
 - **create partition primary**
 - **select partition 1**
 - **active**
 - **format quick fs=fat32**
 - **assign**
6. Now you can exit Diskpart:
 - **exit**

```

Administrator: Eingabeaufforderung - diskpart

C:\Users\Administrator>diskpart

Microsoft DiskPart-Version 6.1.7600
Copyright (C) 1999-2008 Microsoft Corporation.
Auf Computer: WIN-3L50820FC82

DISKPART> list disk

   Datenträger ###  Status              Größe      Frei        Dyn  GPT
   -----
   Datenträger 0      Online             3723 GB      0 B
   Datenträger 1      Kein Medium         0 B         0 B
   Datenträger 2      Online             14 GB       14 GB

DISKPART> select disk 2

Datenträger 2 ist jetzt der gewählte Datenträger.

DISKPART> clean

Der Datenträger wurde bereinigt.

DISKPART> create partition primary

Die angegebene Partition wurde erfolgreich erstellt.

DISKPART> select partition 1

Partition 1 ist jetzt die gewählte Partition.

DISKPART> active

Die aktuelle Partition wurde als aktiv markiert.

DISKPART> format quick fs=fat32

   100 Prozent bearbeitet

DiskPart hat das Volume erfolgreich formatiert.

DISKPART> assign

Der Laufwerkbuchstabe oder der Bereitstellungspunkt wurde zugewiesen.

DISKPART> exit

```

Copying Windows installation files onto the USB stick

Next, Windows installation files need to be copied to the USB stick.

Here is an example of how you can copy the files via Windows Command Prompt from the mounted ISO file or from the inserted Windows DVD to the USB stick:

- Drive D: for the mounted Windows ISO File / Windows DVD
- Drive F: for the USB stick
 - `xcopy d:* f:\ /s /e`

The USB stick is now ready for the "normal" BIOS-based Windows installation. The necessary steps for UEFI-based installations are listed below.

Preparing the USB Stick for UEFI

Check if the file '*BOOTX64.EFI*' via the path `\EFI\BOOT\` is available on the stick.

If this is not the case, you can copy the file to the stick by using one of the two methods below:

- If access to the stick is via a UEFI-enabled computer with a Windows 7 (or higher) x64, the **Bootloader** can be copied and renamed to the stick. You can do this on the system partition under:

- **C:\Windows\Boot\EFI** for the file **bootmgfw.efi**
- Copy it to the stick in the **\EFI\BOOT** folder and rename this file **BOOTX64.EFI** (notice the reverse order of efi and boot)
- The file **bootmgfw.efi** can also be extracted from a Windows 7 (or higher) x64 - DVD. It is located in the 2.7 GByte large archive **Install.wim** in the subdirectory **\sources**. The archive can be extracted with an archiving program. This file is located in the subdirectory "1" of the archive at 1\Windows\Boot\EFI\.

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