

# **Aptio Utility Overview**

AMI-China

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### Agenda

#### → AFU (AMI Firmware Update)

☞命令列下的 Firmware Update Utility 在 DOS, EFI, Windows, Linux 和 FreeBSD

#### WinFlash

∞Windows下的 GUI Flash Update Utility.

#### ChangeLogo

**©OEM Logo Customization Utility for Windows.** 

MMTool (Module Management Tool)

► Module Management Tool 让使用者管理 Aptio firmware image所包含的 firmware modules

DMIEDIT (Desktop Management Interface Editor)

●Desktop Management Interface Edit 让使用者更改 SMBIOS tables下的字串

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### **AMI Firmware update**

- → AFU 是utilities系列中,用于更新 system Firmware的工具,可用在不同的环境下:
  - DOS
  - EFI
  - Windows
  - Linux
  - FreeBSD
- → AFU需要 Aptio Firmware具备SMI Flash Support



### AFU - 使用

### afuxxx /i<ROM filename> [/o<save ROM filename>] [/n] [/p[b][n][c]] [/m][/q] [/h]

- ∞/i Input Firmware File to be flashed
- ∞/o Name of the firmware file to save after reading from the Flash.
- √n Don't check ROM ID
- ∞/pbn
  - b Program Boot Block (recovery firmware volume)
  - n Program NVRAM (non-volatile firmware volume)
- /m Clear SMBIOS string
- √ q Silent execution



### **AFU - Screen Shot**

```
C:\WINNT\system32\cmd.exe
E:∖afu>afuwin ∕oami.fd
AMI Firmware Update Utility for APTIO - Version 2.06
Copyright (C)2004 American Megatrends, Inc. All rights reserved.
 Reading flash ..... done
E:∖afu>afuwin /iami.fd /pbn /m
AMI Firmware Update Utility for APTIO - Version 2.06
Copyright (C)2004 American Megatrends, Inc. All rights reserved.
 Reading file ..... done
 Erasing flash ..... done
 Writing flash ..... done
 Verifying flash ..... done
 Erasing BootBlock ..... done
 Writing BootBlock ..... done
 Verifying BootBlock ... done
E:∖afu>
```

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#### WinFlash

- ➢ WinFlash 是 AMI's GUI based Firmware Update Utility 符合Windows flavors
- → WinFlash 让使用者可以
  - ☞存储现有的firmware image
  - ☞更新现有的 firmware image
  - ☞依需要可选择 update BootBlock, NVRAM and SMBIOS Strings.
  - Create a recovery diskette for safety reasons.
- The following slides shows the screen shots of the functionality of WinFlash

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#### WinFlash - Screen Shot

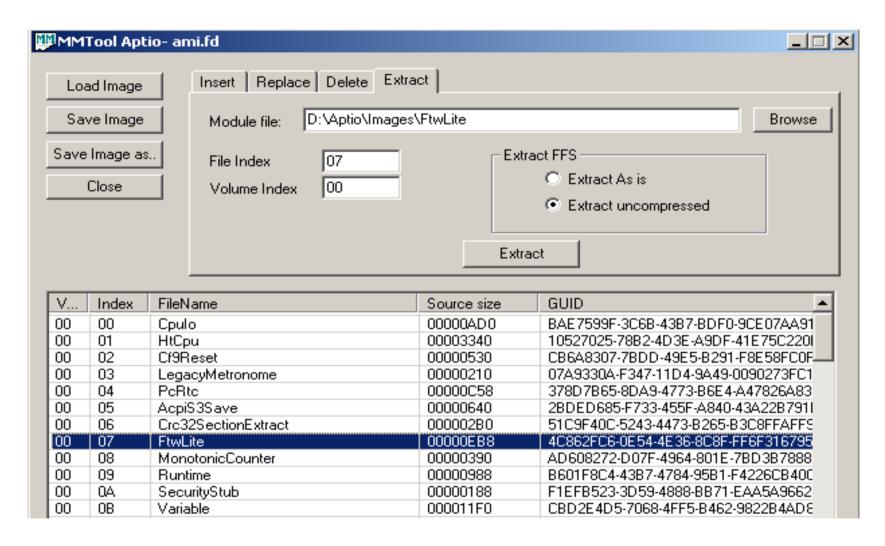


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#### **MMTool - Extract**



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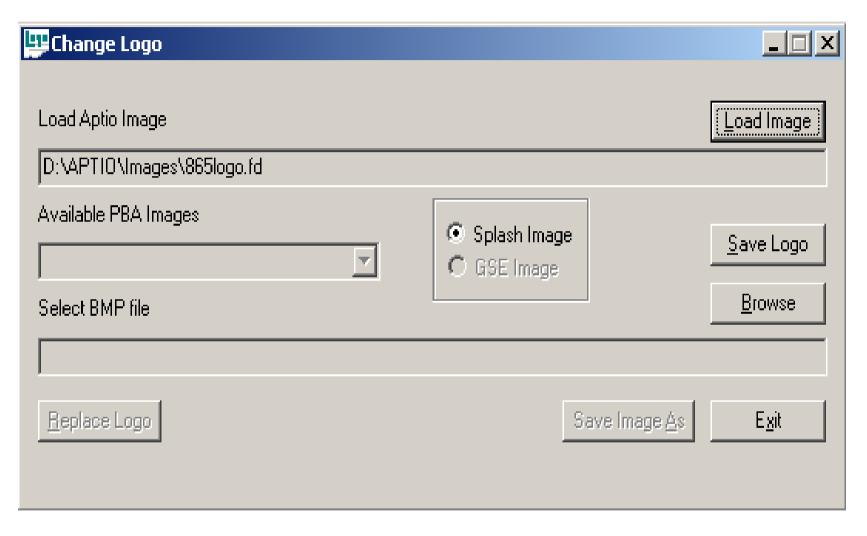
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### ChangeLogo

- ➢ ChangeLogo 是一个 GUI based utility 让使用着 去自定OEM logo 和 PBA Images 在 Aptio Firmware Image里
- The logo can be changed and customized without rebuilding the source
- ChangeLogo is supported all flavors of Windows
- The ChangeLogo utility requires that the input file be an Aptio firmware file with an existing logo module

## Changelogo - Screen Shot



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#### **DMIEDIT**

- DMIEDIT allows the user to modify strings associated with SMBIOS tables
- This utility works with Aptio firmware that includes SMBIOS support
- → 使用者可以用 DMIEDIT 去更改下列的SMBIOS tables

  - **Chassis**
  - **∞OEM String**
- DMIEDIT is supported in DOS/EFI and Microsoft Windows 9x/2000/XP



## **DMIEDIT - Working**

- DMIEDIT requires an input file in a specific format
- The input file must include at least one SMBIOS table entry
- Each SMBIOS table entry contains the SMBIOS table type name followed by the strings to be edited
- The DMIEDIT program can fail if it encounters an error in the input file
- Run the utility from the command prompt with the input file
  C:\dmiedit set.dms <Enter>



### SET.DMS - Example

#### The following is an example of an input file

```
[System]
Manufacturer = AMI
Product = Dummy
Version = 6.22
SerialNum = 123455
[BaseBoard]
Manufacturer = AMI
Product = Dummy
Version = 1.22
SerialNum = 122333
[Chassis]
Manufacturer = AMI
Version = 1.22
SerialNum = 12222
TagNum = 122212
```





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