



# HP Mobile DMIFIT

## Step-by-Step Guide

### DMIFIT Version 2.10 and later

Updated August 2016

After performing a system board replacement on a workstation, desktop, notebook, mobile Thin Client, or tablet PC, service engineers are required to program the replacement system board's Desktop Management Interface (DMI) information.

DMI programming restores the customer's original system's serial number, SKU number (Product Number), Product Name, PCID (System Configuration ID), CT number, Build ID, Feature Byte, and other important information to the new system board.

This guide provides the step-by-step instructions for updating DMI on HP notebooks.

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## What is New with Version 2.10 (from 2.0F)

There are several new features and process changes that take place with the release of the DMI Programming Tools Version 2.10. Please review the list below as well as the USB Key Tool Creation, DMI Programming and Intel Branding Quick Start Guides for more information.

### 1. 3C 16 Consumer Notebooks will begin using WNDMIFIT Tool to Program DMI

In version 2.10, consumer notebooks will begin using the WINDMIFIT Tool to program DMI. This is a change from 2C 16 Consumer Notebooks, which use the NBDMIFIT to program DMI. As with 2C 16 Consumer Notebooks, 3C 16 Consumer Notebooks will need to be unlocked prior to programming DMI and then locked after the DMI programming is completed.

### 2. UEFI MPM Lock Capability

For 2015 / 2016 Business Notebooks, users can now lock MPM from the DOS USB Key utilizing a new UEFI MPM Lock tool. Once the user has completed Committing ME on the system board, the system will reboot back to UEFI and ask the user if they would like to lock MPM. No need to switch back to the WINPE USB Key to lock MPM.

### 3. Disable vPro Bug Fix

In version 2.0E, there was an issue when users tried to disable vPro on specific systems. This issue has been corrected in version 2.10. Please note that in some systems, disabling vPro on a system that has vPro available, may require a second reboot.

### 4. Updated Format USB Command to Allow Selection from Multiple Drives

The "formatusbdisk.cmd" used during the creation of the USB Keys was limited to only showing 3 of the available disk drives. The tool has been revised to show up to 7 available disk drives.

### 5. USB Key Naming

In version 2.10, the WINPE 32 and the WINPE 64 keys are now named as such.

### 6. Desktop Commit Capability

Typically, replacement desktop system boards should arrive on site in what is termed as "Panic Mode". This means the system board has been "Committed" and set to lock automatically as soon as the DMI Information has been entered. However, there may be circumstances where the system board has been received "Uncommitted" and the board is not in "Panic Mode". In 2.10, the system profiles for desktops have been added to the Commit ME tool so that the system board can be "Committed" and locked.

## Creating the Tools

To complete DMI Programming and Commit ME (if required) on a new system board on a HP Notebook, you MUST have the following USB Keys / utilities.

- DOS USB Key: NBDMIFIT / UEFI Tools (Including Commit ME)
- WinPE USB Key (32 Bit): WNDMIFIT
- WinPE USB Key (64 Bit): WNDMIFIT

Please see the DMI Tools Creation Quick Start Guide for complete instructions to create the tools

Different systems require different tools based upon the year the product was developed and the type of BIOS it uses.

|                                     | DOS USB key   | WinPE 32-bit USB key   | WinPE 64-bit USB key   |
|-------------------------------------|---|--|--|
| Tools                               | <ul style="list-style-type: none"> <li>• NBDMIFIT</li> <li>• ME Commit Tool</li> </ul>  | WNDMIFIT   | WNDMIFIT   |
| Used for these commercial notebooks | <ul style="list-style-type: none"> <li>• Commercial Notebooks built prior to 2012</li> <li>• Intel-based notebooks</li> <li>• Consumer notebooks</li> </ul> | <ul style="list-style-type: none"> <li>• 2012 or newer models</li> <li>• ElitePad 900</li> <li>• HP Pro Tablet 10 EE G1</li> <li>• 3C16 consumer notebooks?</li> </ul> | <ul style="list-style-type: none"> <li>• 2012 or newer products</li> <li>• ElitePad 1000 G2</li> <li>• HP Pro Tablet 608 G1</li> </ul> |

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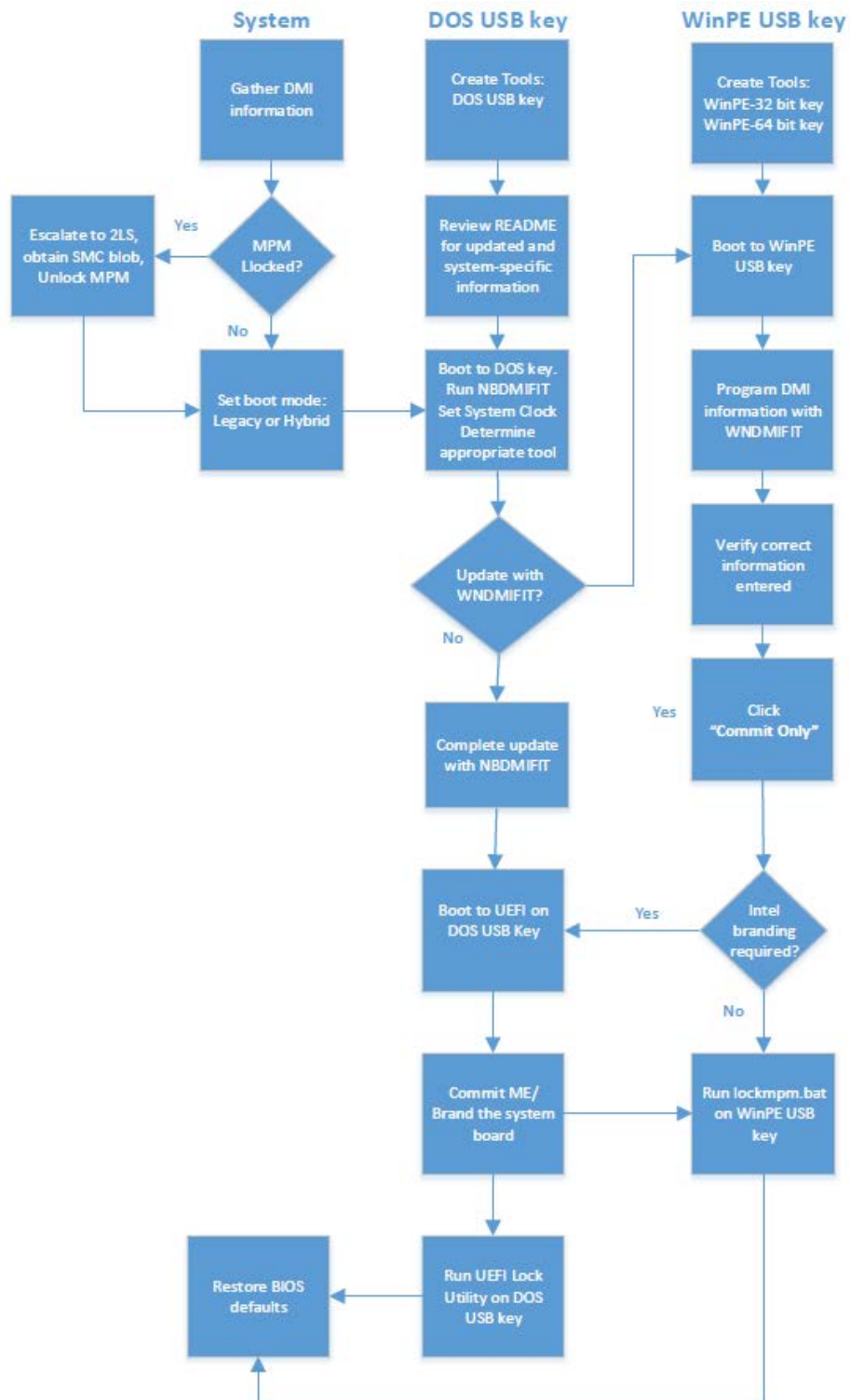
**Tip:** The WinPE-32 and WinPE-64 bit tools can be used interchangeably on most systems. The individual products that are specified, however, require the use of the corresponding tool.

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## Process Overview

### HP Commercial Notebooks

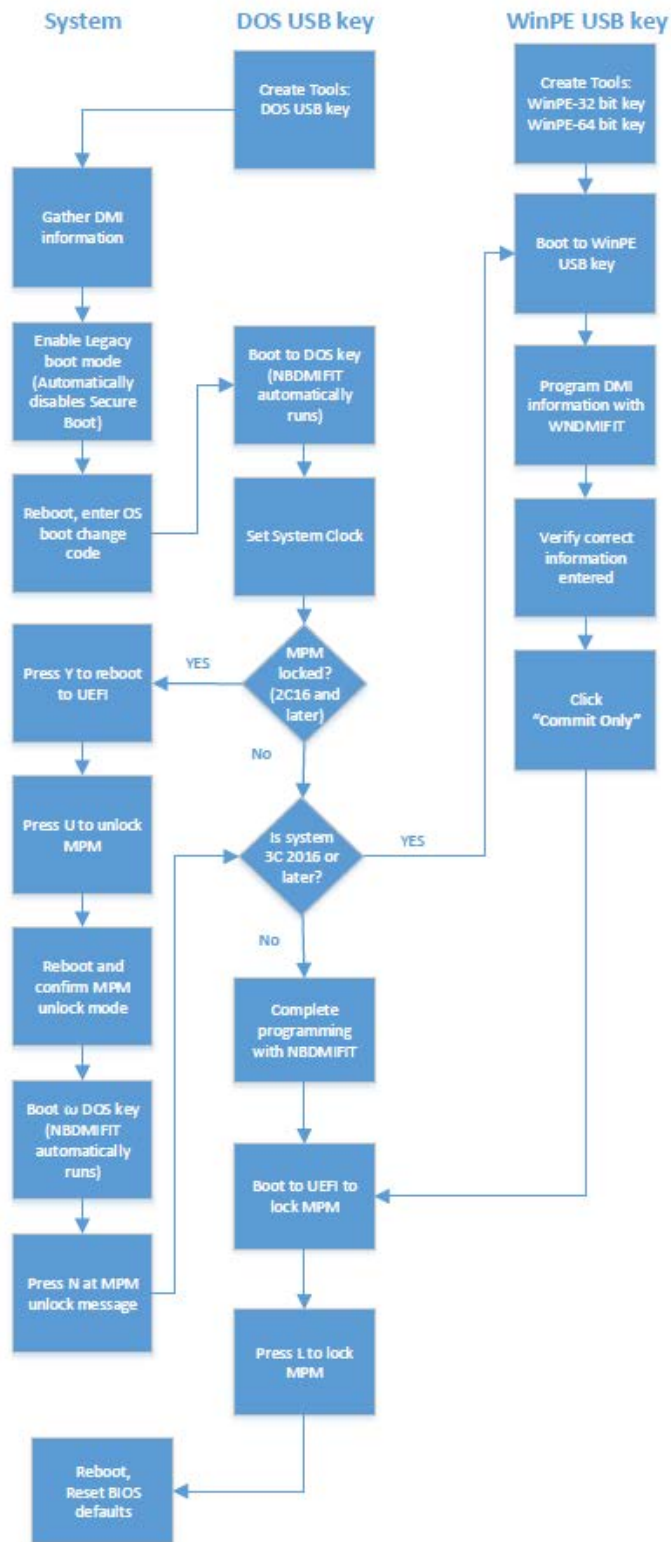
The general process to program DMI on HP commercial notebooks shown in the following flow chart.



## HP Consumer Notebooks

Consumer notebooks use the same NBDMIFIT tools as commercial notebooks. However, the steps to complete the programming are different. The following flow chart shows the process.

**Note:** The steps to complete DMI programming on Consumer Notebooks are detailed in the HP Consumer Notebook Step-by-Step Guide.



## Gathering information

### Data Collection

To program DMI on a new system board, you will need to gather the required information below. Please write down the information before installing the new system board into the system:

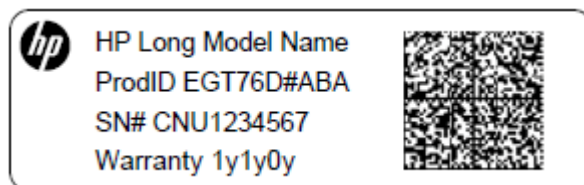
- Serial number
- SKU number
- Product name
- System board CT number
- System Configuration ID or PCID ( 2014 and older platforms)
- Feature Byte (Case Sensitive) and Build ID (2015 and newer platforms)

You can obtain the necessary information by locating the Service tag and Flex build labels on the products:

### Product Identification Labels

All HP business computers include a Product Identification Label (sometimes also called the “service tag” or “service label”) that contains information such as product number, serial number, and model key. The Product ID label may be located on the back of the Notebook, in the battery compartment, or under a cover on the back of the Notebook.

Example of a Service tag on commercial notebook:



Example of a Flexbuild label:



## Committing ME

Committing ME is necessary to configure the Intel security features, including Intel AT and Intel AMT, on the replacement system board, according to the customer's entitlement. Committing ME and setting VPRO/AT/NFC is required and run ONLY on commercial models that are INTEL CPU based. If the model # ends with a "5" (i.e. 8475, 9475, etc.) this is AMD CPU based (not INTEL). If you attempt to Commit ME an AMD based unit, you will receive a message that this option is unsupported.

You can locate information on a product's ME requirements using the Serial Number Repository.

---

**Note:** Committing ME is also referred to as "Branding" the system board

---

## MPM Counter

On systems before 2014 that require Committing ME, 10 reboots are allowed until the MPM is automatically locked. On 2015 systems, 50 reboots allowed before locking. You should start DMI process with message at boot saying "Manufacturing Mode x:10", or a number reflecting how many reboot are left before locking. The process requires 3-4 reboots to complete, so adjust the number accordingly before starting to program the system.

### Resetting the counter

If the counter is 5 or more on systems 2014 and before, or the counter is more than 10 on systems 2015 and after. You should run the **rMpmCnt.bat** file found in the WNDMIFIT folder of the WINPE 32 / 64 USB Key.



## Getting Started

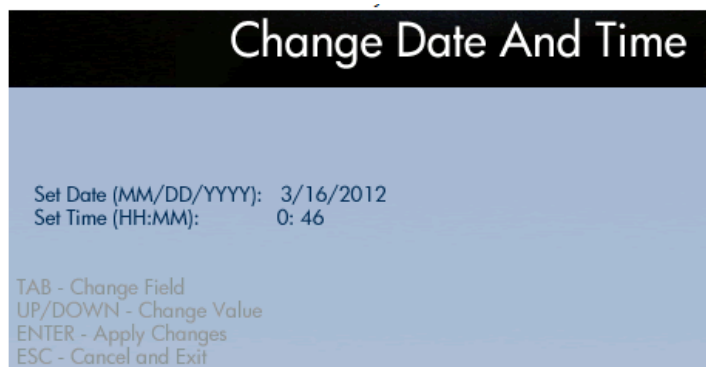
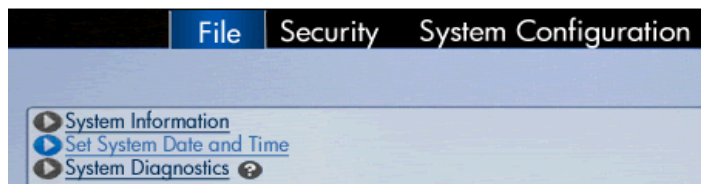
### Setting the Date and Time

The replacement system board might not have the correct time set in the system clock. The automatic UUID generation requires the system clock be set correctly. As such, you must set the system clock before starting the DMI Programming process. Please note that NBDMIFIT tool can also be used to set the date and time.

#### Steps for Setting Date and Time in HP Setup

Many systems allow you to set the clock in the HP Setup Utility:

1. Access the System BIOS by pressing **F10** during boot.
2. Select **File - Set System Date and Time**.
3. Set the date and time for the time zone you are in.



You can also use the NBDMIFIT tool to set the date and time, as discussed below.

### Determining Which Tool To Use

Different systems require different tools based upon the year the product was developed and the type of BIOS it uses. To determine the correct tool to use, please use the guide below to select the correct USB key and tool for programming DMI, enabling vPro and locking the system board.

#### DOS USB KEY (NBDMIFIT / UEFI Commit ME Tool):

1. **NBDMIFIT Tool:** NBDMIFIT Tool is used for programming DMI on Intel-based models built prior to 2012.
2. **Dedicated DMI Programming Tools:** A set of UEFI-based tools used to program DMI on a dedicated set of platforms.

3. **UEFI Commit ME Tool:** UEFI Commit ME Tool is used to enable or commit vPro on ALL applicable commercial notebooks.
4. **UEFI Lock Utility:** A UEFI utility that can be used to lock the system board after Committing ME.

### WinPE USB Key (WNDMIFIT)

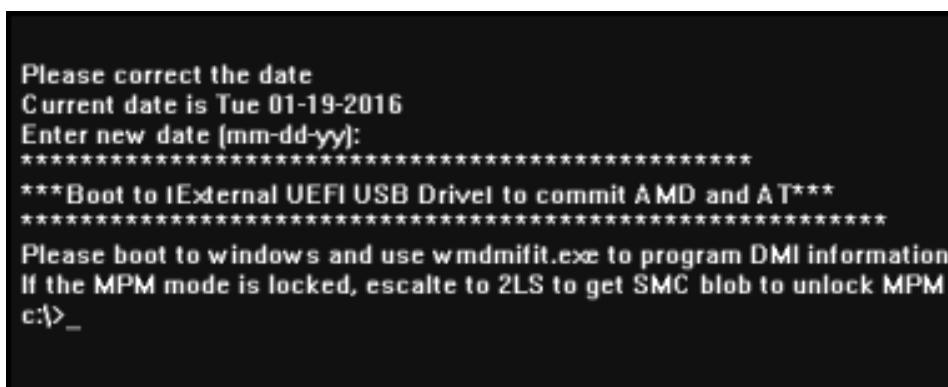
1. **WNDMIFIT Tool:** WNDMIFIT Tool is used for programming DMI on 2012 or newer models.
2. **Dedicated DMI Programing Tools:** A set of UEFI-based tools used to program DMI on a dedicated set of platforms.
3. **MPM Lock File:** File used to lock the system board in the WINPE environment.

## Using NBDMIFIT to Identify Correct Tool / Set Date and Time

If you are unsure which tool to use, simply run NBDMIFIT first to identify which tools should be used on the system. If the product requires a different tool other than NBDMIFIT, the system will tell you which tool to run.

### Steps to Identify the Correct Tool using NBDMIFIT

1. Press **F10** to access the BIOS. Set the boot mode to UEFI Hybrid



```
Please correct the date
Current date is Tue 01-19-2016
Enter new date [mm-dd-yy]:
*****
***Boot to IExternal UEFI USB Drivel to commit AMD and AT***
*****
Please boot to windows and use wmdmifit.exe to program DMI information
If the MPM mode is locked, escalate to 2LS to get SMC blob to unlock MPM
c:\>_
```

2. Boot to the DOS USB key.

---

**Note:** version 2.0E and later will auto-execute the 'nbdmifit.bat' command.

---

3. Set the correct date and time if not correct. Important! The date and time must be set correctly to generate the UUID without errors.

If the product requires a different tool other than NBDMIFIT the system tells you DMI programming tool to use.

## Programing DMI Using NBDMIFIT

If the product does not support WNDMIFIT (including most 2C16 and earlier consumer notebooks and legacy commercial notebooks prior to 2012), then the program process continues using NBDMIFIT. This screen shows an example.:

```
Basic Menu
<0>: Serial Number
<1>: NoteBook Model
<2>: GUID Number
<3>: UUID Number
<4>: SKU Number
<5>: CTO Localization Code
<6>: MAC Address
<8>: System Board CT Number
<B>: Cycle AV
<C>: Build ID
<D>: Feature Byte
<E>: Keyboard Type

<R>: Read Product Information
<S>: Save EEPROM to file
<W>: Program EEPROM from File
<ESC>: Exit the program

Please Enter Your Choice:
```

To program DMI,

1. Select each option by pressing the associated number or letter from the menu, and then enter the information.
2. When you are finished, press **S** to save to EEPROM.
3. Press **ESC** to exit the program.

## Programing DMI Using WINPE /WNDMIFIT

Use the process below to program DMI using the WinPE USB Key and WNDMIFIT. Remember, WNDMIFIT is used for programming DMI on 2012 or newer models.

### Steps to Run WNDMIFIT

1. Set the correct date and time for the system (See Setting Date and Time).
2. Press F10 to access the BIOS. Set the boot mode to UEFI Hybrid to boot the DOS USB key. (if this has not already been done during a previous step).
3. Boot the laptop from the WINPE tool to run the WNDMIFIT application. It is recommended to use this tool due to possible policy restrictions when running in Windows OS.
4. The tool should auto launch the WNDMIFIT tool
5. The tool will run and present a menu of the DMI information to be updated (See Figure # 2)
6. Using the information gathered previously, update each of the items below as required.

Please note that not all platforms will have all or require each piece of information.

- a. Product Name - SELECT from the drop down menu.
- b. Enter the SKU / Model #
- c. Enter System Configuration ID (2014 and older platforms)
- d. Enter the Serial # (s/n: on the service tag)
- e. Enter the System Board CT # (if required, some board may have the CT# already populated)
- f. Enter the Feature Byte (case sensitive) – for model years 2015 forward.
- g. Enter the Build ID (all CAPS) – for model years 2015 forward.

After you have entered all of the DMI information, confirm that it has been entered correctly.

7. If the DMI information is correct, click “Commit Only” to program the information.
8. Reboot to BIOS and confirm the UUID # does not display as all “Fs”. If the UUID displays as all “Fs”, power down and power back up into BIOS. The UUID should be set correctly.
9. Continue to the Commit ME and Lock steps found in this document.

The screenshot shows a window titled "Notebook DMI Firmware Interface Tool" with a close button in the top right corner. The window contains the following fields and controls:

- Product Name:** A dropdown menu with "HP EliteBook 840 G2" selected.
- SKU Number:** A text input field containing "L3Z72UT#ABA".
- Radio Buttons:** Two sets of radio buttons. The first set has "On" selected and "Off" with the text "not supported through PCID on this platform". The second set also has "On" selected and "Off" with the text "not supported through PCID on this platform".
- Serial Number:** A text input field containing "5CG5170345".
- Asset Tracking Number:** An empty text input field followed by a checkbox labeled "Copy Serial Number".
- System Board CT:** A text input field containing "PEVED00WB8L48T".
- UUID:** A text input field containing "7FA9EFC27915E411B0B64A9AC02C0FF".
- Feature Byte:** A text input field containing "3X47676J6S6b757H7M7Q7W7s7z8vaBaqawb".
- Build ID:** A text input field containing "14WWCSAW601#SABA#DABA".
- Commit Only:** A button located at the bottom center of the window.

## Committing ME

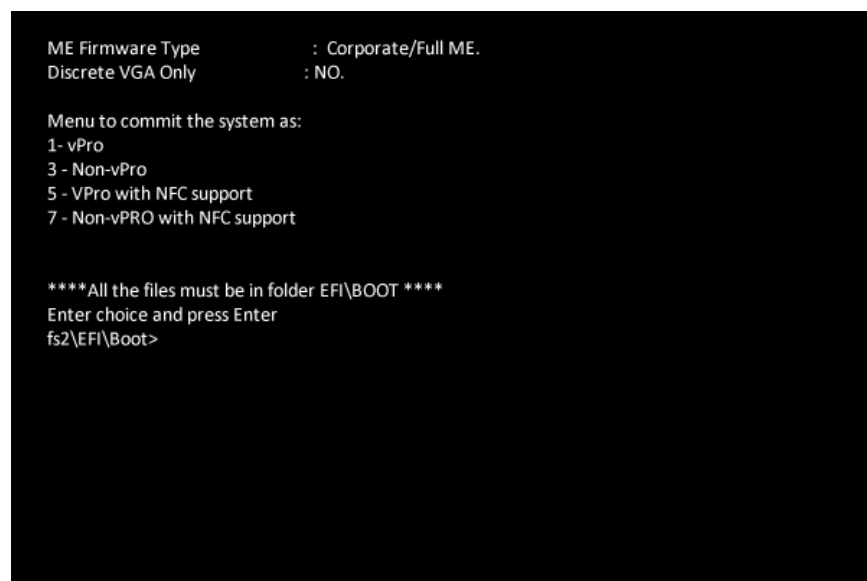
After you have programmed DMI, you are now ready to Commit ME. Specifically, this entails using a special tool to enable or dis-enable Intel vPro capabilities. Please check the product's Build of Material to determine if vPro should or should not be enabled.

### Location of the Commit ME Tool:

Please note that the Commit ME Tool is found on the DOS USB Key. If you programmed DMI using the WinPE USB Key, you will need to remove the WinPE USB Key and insert the DOS USB Key.

### Steps to Run the Intel Commit ME Tool

1. Ensure that Boot Mode in BIOS is set to UEFI Hybrid.
2. Insert the DOS USB key into a USB 2.0 slot.
3. Power up the notebook.
4. Press **F9** for boot options menu.
5. Select **External USB Hard Drive**.



```
ME Firmware Type           : Corporate/Full ME.
Discrete VGA Only         : NO.

Menu to commit the system as:
1- vPro
3 - Non-vPro
5 - VPro with NFC support
7 - Non-vPRO with NFC support

****All the files must be in folder EFI\BOOT ****
Enter choice and press Enter
fs2\EFI\Boot>
```

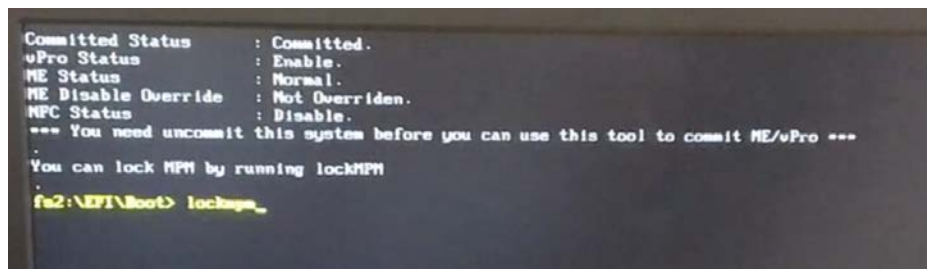
6. Select the correct menu option according to the customer's entitlements. Please note that the menu displayed will vary based upon the system. If the system is not a vPro, capable machine, it will only show a Non-vPro and Non-vPro with NFC options.
7. Reboot the system.
8. Boot to External USB Hard Drive again to verify
9. You are now ready to lock the system board.

## Locking the System Board

At this point, you have successfully programmed DMI and (if required) Committed ME. The final step is to lock the board so that no unauthorized changes can be made. This is now done from the DOS USB Key (on 2015 or later models). Make sure that there is **only** the MPM message at POST before locking MPM.

### DOS USB Key (Steps to Lock the System Board)

1. After Committing ME, the system will reboot back to UEFI / DOS USB Key and display a short status menu as shown below:



```

Committed Status      : Committed.
uPro Status           : Enable.
ME Status             : Normal.
ME Disable Override   : Not Overriden.
MPC Status            : Disable.
*** You need uncommit this system before you can use this tool to commit ME/uPro ***
.
You can lock MPM by running lockMPM
.
fs2:\EFI\boot> lockmpm_

```

2. It will then provide the option to Lock the system
3. Type "lockmpm" to lock the system board.
4. Sure Start Production Mode (Auto Selection)

---

If you see the message "*Your system is not fully configured. Please contact HP customer support*" during the programming / committing ME process, then your system will need to Set SureStart Production Mode. When using the UEFI MPM Lock Tool, Sure Start Production Mode will automatically be determined and set by the tool.

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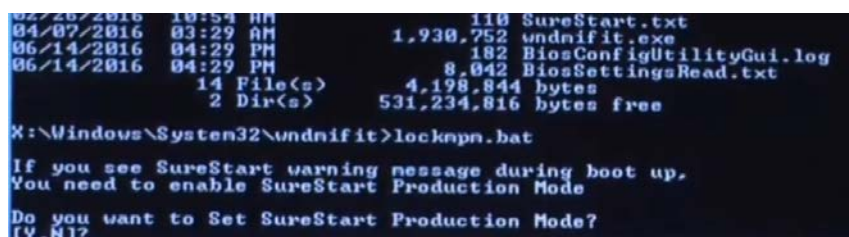
5. Access BIOS and reset system defaults.
6. Verify that the OS boots without issue.
7. Reset any BIOS settings and adjustments back to the customer's original BIOS setting requirements.
8. Verify that the OS boots without issue. If the OS needs to be reloaded, turn the unit over to the end user to complete this task.

### Using WINPE (Steps to Lock the System Board)

1. Boot to the WinPE key (Legacy)
2. Close the WNDMIFIT window by clicking the close button in the upper right corner.
3. Run **LOCKMPM.BAT** from the directory WNDMIFIT
4. Set SureStart Production Mode

---

If you see the message "*Your system is not fully configured. Please contact HP customer support*" during the programming / Committing ME process, then you will need to Set SureStart Production Mode. If there is no message, then SureStart Production Mode is already set.



```
02/28/2016 10:54 AM          110 SureStart.txt
04/07/2016 03:29 AM          1,930,752 undnifit.exe
06/14/2016 04:29 PM           182 BiosConfigUtilityGui.log
06/14/2016 04:29 PM           8,042 BiosSettingsRead.txt
          14 File(s)          4,198,844 bytes
          2 Dir(s)           531,234,816 bytes free

X:\Windows\System32\undnifit>lockmpm.bat

If you see SureStart warning message during boot up,
You need to enable SureStart Production Mode

Do you want to Set SureStart Production Mode?
(Y, N)?
```

- 
5. Access BIOS and reset system defaults.
  6. Verify that the OS boots without issue.
  7. Reset any BIOS settings and adjustments back to the customer's original BIOS setting requirements.
  8. Verify that the OS boots without issue. If the OS needs to be reloaded, turn the unit over to the end user to complete this task.



## Programming DMI on Tablets and Select Notebooks

Due to the specific nature of some systems, specific tools or processes are required to Program DMI and Commit ME. If neither NBDMIFIT nor WNDMIFIT were able to be used, you may be working with a system that requires a special set of tools.

### Dedicated UEFI Tools / Platforms

If you are working with one of the following platforms, you will need to use a dedicated set of UEFI Tools to program DMI and Commit ME. The tool is set to automatically detect these platforms and start the appropriate utility. This applies to the following platforms:

- HP 240 G1/G2, HP 250 G1/G2, HP 255 G1/G2.
- HP Envy x2 (18F6).
- HP Pavilion X2 Detachable (8021).
- HP Pavilion X2 Detachable (813E).
- HP Pavilion X2 Detachable (815D).
- HP Pavition 11x2 (2188).
- HP Pro Tablet 408 G1.
- HP Pro Tablet 610 G1 (22B8).
- HP Pro Tablet 610 G1 (22B9).
- HP Pro x2 410 G1.
- HP Stream 7/8 Tablet.
- HP x2 210 G1 (8173)

#### Location of the dedicated UEFI Files:

Please note that the dedicated UEFI files are found on the DOS USB Key.

#### Steps to Use the dedicated UEFI Tools

1. Boot the system and press F9.
2. Select USB Hard Drive (UEFI), and follow the on-screen prompts to enter DMI information.

```
===== HP CONFIDENTIAL =====
EEPROM Utility Version 1.0.1 Beta
2814 (c) Insyde Software Co., 2814 (c) Hewlett-Packard Dev. Co., L.P. These
tools are proprietary property. Unauthorized use or distribution is prohibited.

Basic Menu
<0> Serial Number
<1> Notebook Model
<2> UUID Number
<4> SKU Number
<5> CTO Localization Code
<7> PCID
<8> System Board CI Number

<R> Read Product Information
<S> Save EEPROM to file
<U> Program EEPROM from file
<ESC> Exit the program

Please Enter Your Choice: _
```

## Elitepad and Tablets

The following Elitepads and Pro Tablets have special requirements. Please follow the steps below as outlined.

### **Using Windows PE for the HP ElitePad 900, HP Pro Tablet 10 EE G1**

1. Insert WINPE32 USB Key
2. Boot the system and press F9.
3. Select USB Hard Drive (UEFI), and follow the on-screen prompts to enter DMI information

### **Using Windows PE for the HP ElitePad 1000 or HP Pro Tablet 608 G1:**

1. Insert WINPE64 USB Key
2. Boot the system and press F9.
3. Select USB Hard Drive (UEFI), and follow the on-screen prompts to enter DMI information

### **Using WINPE for the HP Envy 8 Note**

To program the HP ENVY 8 Note (x8160):

1. Boot to Windows or Windows PE.
2. Enter `cd \Win`.
3. Enable the Build ID and Feature Byte by running the following command:

```
Hpbi205fx64.exe /s /r 100
```

4. Run the command again without any options:

```
Hpbi205fx64.exe
```

5. Program the battery CT number by running the following command:

```
Hpbi205fx64.exe /ctn xxxxxxxxxxx
```

### Programming the Feature Byte and Build ID strings (HP mt41 only)

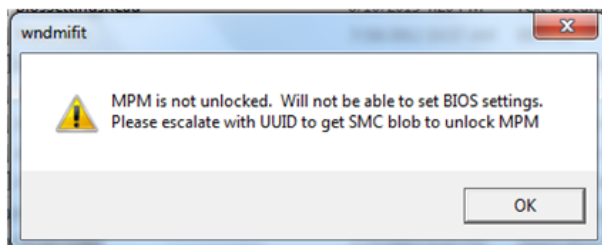
For HP mt41, you will need to enter the Feature Byte and Build IDs below during the DMI Programming process.

|                     | No WWAN & No Camera   | WWAN + Camera installed |
|---------------------|-----------------------|-------------------------|
| <b>Feature Byte</b> | 6a7M7j8X9Faaac.eM     | 6a7M7j8X9FaUaaac.43     |
| <b>Build ID</b>     | 13WWMTBE3ae#SABA#DABA | 13WWMTBE302#SABA#DABA   |

## Troubleshooting notes

### MPM is Locked

1. DMI information can only be updated when the MPM mode is unlocked. The MPM will be locked under the following conditions:
  - A. Previous DMI information on the system board was committed and MPM locked using the WMDMIFIT tool.
    - i. MPM mode was automatically locked due to enough power change event cycles (connection and disconnection to AC power). This mode is used in the factory for normal processes and final testing before being put into a spares kit. However, because those events involve power change cycles, MPM may lock before DMI updates are completed by the installer.
2. If the MPM is locked, a message similar to the image below is displayed when wndmifit is run.

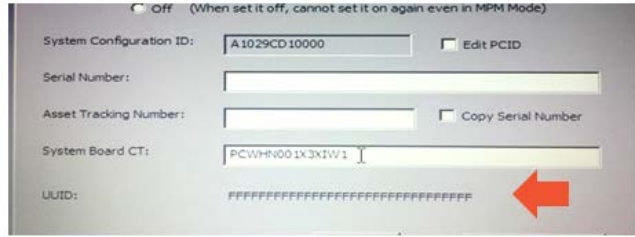


3. To program the system you will need to obtain a system-specific SMC.BIN file to unlock the system

### UUID is all “FFFFFFFFFFFFFFFFFFFFFF”

1. During the programming process, the UUID may display as multiple letter "F". This does not necessarily mean anything is wrong yet. Continue to edit all of the fields accordingly.
2. To verify if the UUID has changed from all F's to a correct UUID:

- A. Boot into BIOS and check under System Information
  - B. Boot to WNDMIFIT If the UUID changed without any errors, everything was set correctly.
3. If the UUID is still all “FFFFFFFFF” and the Commit button is grayed out after locking and rebooting, you will need to use SMC blob FSMC.bin to unlock the system.

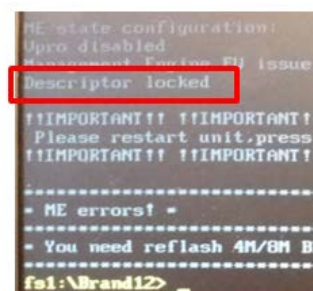


### Solution to unlock MPM if UUID is all F

1. To correct this error, use FSMC.BIN from tools drive to unlock system, then reprogram DMI. To unlock the system:
  - A. Copy the FSMC.bin file from the WNDMIFIT directory to a Fat32-formatted USB key. (4 GB or lower recommended)
  - B. Rename the file to SMC.bin.
  - C. Plug the flash drive into the locked system.
  - D. Hold Windows Key + Arrow UP Key + Arrow Down Key at the same time and turn on the system. (On ElitePad use, Volume-up + Power button)
  - E. When you see the blue HP logo, release all keys.
2. If the SMC file is read correctly, a brief message on a white screen saying, SMC command handled successfully is displayed.
3. Reprogram the DMI information and confirm the UUID is set correctly.

### Intel ME is Locked

If the Intel ME (Management Engine) is locked, you must replace the system board with a new board. A locked ME cannot be fixed in the field or by escalation.



## “Not Fully Configured” Message / Set SureStart Mode

If you receive the following message during your Power on System Test (POST) on 2015 platforms:

"Your system is not fully configured. Please contact HP customer support."

1. Boot to the WinPE key
2. Close WNDMIFIT
3. Run the sssm.bat file found in the WNDMIFIT Directory on the WINPE 32/64 USB Key to correct the issue.

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**Note:** You can also boot to Windows and run the sssm.bat file found in the folder WINDMIFIT of DOS USB key.

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### Version Control Page

| <b>NAME</b>   | <b>DATE</b> | <b>CHANGES</b>   |
|---------------|-------------|--|
| Peter Wood    | 3/29/2016   | Updated MPM locking steps                                    |
| Peter Wood    | 3/29/2016   | Updated ME Lock guidance                                     |
| Peter Wood    | 3/30/2016   | Made Revisions from Thien                                    |
| Jacki-Ann Roy | 4/25/2016   | Restructured and updated graphics per WBT content            |
| Peter Wood    | 7/13/2016   | Updated What's New. Updated Lock MPM Section.                |
| Peter Wood    | 8/3/2016    | General Edits. Updated What's New. Updated Lock MPM Section. |