

# **HP TPM Configuration Utility**

## **Purpose**

HP TPM Configuration Utility (when used with an appropriate TPM firmware (FW) BIN file) allows one to:

- Upgrade from an older TPM 1.2 FW to a newer TPM 1.2 FW
- Upgrade from an older TPM 2.0 FW to a newer TPM 2.0 FW
- Convert from TPM 1.2 to TPM 2.0
- Convert from TPM 2.0 to TPM 1.2

## **Contents**

This softpaq contains the following:

- HP TPM Configuration Utility
  1. TPMConfig.exe for 32-bit OS
  2. TPMConfig64.exe for 64-bit OS
- Common Criteria (CC) certified TPM FW BIN files
  1. TPM12\_6.40.190.0\_to\_TPM12\_6.43.243.0.BIN
  2. TPM12\_6.40.190.0\_to\_TPM20\_7.62.3126.0.BIN
  3. TPM12\_6.41.197.0\_to\_TPM12\_6.43.243.0.BIN
  4. TPM12\_6.41.197.0\_to\_TPM20\_7.62.3126.0.BIN
  5. TPM12\_6.41.198.0\_to\_TPM12\_6.43.243.0.BIN
  6. TPM12\_6.41.198.0\_to\_TPM20\_7.62.3126.0.BIN
  7. TPM12\_6.43.243.0\_to\_TPM20\_7.62.3126.0.BIN
  8. TPM20\_7.40.2098.0\_to\_TPM12\_6.43.243.0.BIN
  9. TPM20\_7.40.2098.0\_to\_TPM20\_7.62.3126.0.BIN
  10. TPM20\_7.41.2375.0\_to\_TPM12\_6.43.243.0.BIN
  11. TPM20\_7.41.2375.0\_to\_TPM20\_7.62.3126.0.BIN
  12. TPM20\_7.60.2677.0\_to\_TPM12\_6.43.243.0.BIN
  13. TPM20\_7.60.2677.0\_to\_TPM20\_7.62.3126.0.BIN
  14. TPM20\_7.61.2785.0\_to\_TPM12\_6.43.243.0.BIN
  15. TPM20\_7.61.2785.0\_to\_TPM20\_7.62.3126.0.BIN
  16. TPM20\_7.62.3126.0\_to\_TPM12\_6.43.243.0.BIN

## **Warning**

To avoid a complete loss of data, the drive must be in a decrypted state before using the utility. The utility has a built-in check for Microsoft BitLocker, HP Drive Encryption, and WinMagic SecureDoc solutions only. If BitLocker or HP Drive Encryption or SecureDoc is used, the utility will exit after advising that the disk must be decrypted first. The utility does not detect other disk encryption solutions.

## **Scope**

1. This softpaq supersedes SP78910.
2. It is supported on 2015, 2016, and 2017 Commercial platforms that have Infineon SLB9670 TPM chip and the latest Commercial BIOS. For details, refer to the List of Supported Platforms at the end of this document.
3. Windows 7 will only work with TPM 1.2. TPM 2.0 is not supported on HP platforms with Windows 7.
4. Windows 8.x and Windows 10 can support either TPM 1.2 or TPM 2.0.
5. TPM can be converted between TPM 1.2 and TPM 2.0 up to a maximum of 64 times.
6. The utility can only be run in Windows 7, Windows 8.x, or Windows 10. It does not support Windows PE.
7. Physical presence is required.

## **Instructions**

- Run softpaq to extract files. By default it will extract the files in C:\SWSETUP\SP81900 folder.
- Copy the desired TPM FW BIN file and the appropriate HP TPM Configuration Utility (either 32-bit or 64-bit) to a temporary folder. Only one TPM FW BIN file is allowed in the temporary folder.
- Do not rename the TPM FW BIN file.
- Open CMD Prompt in Administrator mode and run TPM.MSC to determine the TPM Manufacturer Information.
  - Manufacturer Name: IFX
  - For TPM 1.2, Manufacturer Version: Either 6.40 or 6.41
  - For TPM 2.0, Manufacturer Version: Either 7.40 or 7.41 or 7.60 or 7.61
  - Specification version: Either 1.2 or 2.0
- The utility supports
  - Graphical User Interface (GUI) for step-by-step execution
  - Command line mode (including silent execution)
- Run MSINFO32 to determine 32-bit or 64-bit OS. Examine System Type (will show either “x64-based PC” or “32-based PC”).
- Run the appropriate utility (TPMConfig.exe for 32-bit OS or TPMConfig64.exe for 64-bit OS) as an Administrator from the folder where the utility and TPM FW BIN file are located.

## **Additional Notes**

- On Windows 7, TPM 1.2 must be activated in BIOS (Check TPM state in BIOS).
- On Windows 8.x or Windows 10, the OS will automatically take ownership of TPM.
- Windows 8.x and Windows 10 require GPT partition style when using TPM 2.0. The BIOS setting for boot mode should be set to native UEFI (recommended) or UEFI with CSM.
- Windows 7-64, Windows 8.x, and Windows 10 will work with MBR or GPT partition style when using TPM 1.2.

## **Command Line Options**

The following Command Line options (aka “switches”) are supported with HP TPM Configuration Utility:

<b>Option</b>	<b>Comments</b>
<b>-fBIN-file</b>	Specifies the TPM firmware .BIN image file. Default is *.BIN in the executable folder. This switch is required if running in silent mode (-s).  Note: there is no space between -f and filename.
<b>-ppassword-file</b>	Specify password file created with the HpqpSwd utility.  This file is required if there is a BIOS Setup password set.  Note: there is no space between -p and filename.
<b>-s</b>	Silent mode.
<b>-c</b>	Create HP_TOOLS partition if not present. On a GPT formatted system with native UEFI boot, this option is ignored. On MBR, the partition is not created if it already exists. If unable to create partition, exits with error code.
<b>-?</b>	Show the same usage dialog that appears if an invalid command line is detected. This options overrides all other options, including -s.

## **Command Line Examples (assuming it is a 64-bit OS)**

1. Graphical user interface
  - Tpmconfig64
2. Silent mode
  - Tpmconfig64 -s -fFirmwareFileName
3. Silent mode, create EFI/HP\_TOOLS partition if not existed
  - Tpmconfig64 -s -fFirmwareFileName -c
4. Silent mode, password file is provided
  - Tpmconfig64 -s -fFirmwareFileName -pBiosPasswordFile
5. To convert from TPM FW version 6.40.190.0 to TPM FW version 7.62.3126.0
  - Tpmconfig64 -s -fTPM12\_TPM12\_6.40.190.0\_to\_TPM20\_7.62.3126.0.BIN
6. To convert from TPM FW version 7.41.2375.0 to TPM FW version 7.62.3126.0
  - Tpmconfig64 -s -fTPM20\_7.41.2375.0\_to\_TPM20\_7.62.3126.0.BIN
7. To upgrade from TPM FW version 7.40.2098.0 to TPM FW version 7.62.3126.0
  - Tpmconfig64 -s -fTPM20\_7.40.2098.0\_to\_TPM20\_7.62.3126.0.BIN
8. To upgrade from TPM FW version 7.62.3126.0 to TPM FW version 6.43.243.0
  - Tpmconfig64 -s -fTPM20\_7.62.3126.0\_to\_TPM12\_6.43.243.0.BIN

### **List of Supported 2015 Notebook Platforms**

Education	HP ProBook 11 G2
400	HP ProBook 430 G3
400	HP ProBook 440 G3
400	HP ProBook 450 G3
400	HP ProBook 455 G3
400	HP ProBook 470 G3
600	HP ProBook 640/650 G2
600	HP ProBook 645/655 G2
700	HP EliteBook 725 G3
700	HP EliteBook 745/755 G3
800	HP EliteBook 820/828 G3
800	HP EliteBook 840/848/850 G3
800	HP Elite x2 1012 G1
1000	HP EliteBook Folio 1030 G1
1000	HP EliteBook Folio 1040 G3
1000	HP EliteBook Folio G1
WS	HP ZBook 15 G3
WS	HP ZBook 15u G3
WS	HP ZBook 17 G3
WS	HP ZBook Studio G3

### **List of Supported 2015 Desktop Platforms**

400	HP ProDesk 400 G2 DM
400	HP ProOne 400 G2 AiO 20 T & NT HP ProOne 460/480 G2 AiO 20 NT
400	HP ProDesk 400 G3 MT
400	HP ProDesk 400 G3 SFF (2x2)
400	HP ProDesk 480 G3 MT
400	HP ProDesk 490/498 G3 MT
600	HP ProDesk 600 G2 SFF
600	HP ProDesk 600/680 G2 MT
600	HP ProDesk 600 G2 DM
600	HP ProOne 600 G2 AiO T & NT
700	HP EliteDesk 705 G2 DM
800	HP EliteDesk 800/880 G2 TWR
800	HP EliteDesk 800 G2 SFF
800	HP EliteDesk 800 G2 DM
800	HP EliteOne 800 G2 AiO 23 T & NT
RPOS	HP RP9 G1 Retail System
RPOS	HP MP9 G2 Retail System

### **List of Supported 2016 Notebook Platforms**

400	HP ProBook 430 G4
400	HP ProBook 440 G4
400	HP ProBook 450 G4
400	HP ProBook 455 G4
400	HP ProBook 470 G4
600	HP ProBook 640 G3
600	HP ProBook 645 G3
600	HP ProBook 650 G3
600	HP ProBook 655 G3
Education	HP ProBook x360 11 G2 EE
600	HP Pro x2 612 G2
700	HP EliteBook 725 G4
700	HP EliteBook 745 G4
700	HP EliteBook 755 G4
800	HP EliteBook 820/828 G4
800	HP EliteBook 840/848 G4
800	HP EliteBook 850 G4
1000	HP EliteBook x360 1030 G1
1000	HP EliteBook x360 G2
1000	HP EliteBook Folio 1040 G4
1000	HP Elite x2 1012 G2 Tablet
WS	HP ZBook Studio G4
WS	HP ZBook 14u G4
WS	HP ZBook 15 G4
WS	HP ZBook 15u G4
WS	HP ZBook 17 G4

**List of Supported 2016/2017 Desktop Platforms**

400	HP ProOne 400 G3 AiO 20" T/NT
400	HP ProDesk 400 G3 DM
400	HP ProDesk 400 G4 SFF
400	HP ProDesk 400/480 G4 MT
600	HP ProDesk 600 G3 SFF
600	HP ProDesk 600 G3 DM
600	HP ProOne 600 G3 AiO
600	HP ProDesk 600/680 G3 MT
700	HP EliteDesk 705 G3 MT
700	HP EliteDesk 705 G3 SFF
700	HP EliteDesk 705 G3 DM
800	HP EliteOne 800 G3 AIO T & NT
800	HP EliteDesk 800 G3 SFF
800	HP EliteDesk 800 G3 DM
800	HP EliteDesk 800/880 G3 Tower
RPOS	HP ElitePOS G1 Retail System
Elite	HP Elite Slice

**List of Supported Thin Client Platforms**

TC	HP mt20 Mobile Thin Client
TC	HP mt21 Mobile Thin Client
TC	HP mt42 Mobile Thin Client
TC	HP mt43 Mobile Thin Client