

<b>Document Name:</b> PES of Acer BIOS Setting Tool (NB)	<b>Doc. No.:</b> 20190514-0001	<b>Revision:</b> 1.10
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# PRODUCT EXTERNAL SPECIFICATION of Acer BIOS Setting Tool (NB) v1.10

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## Version History

Revision	Personnel	Date	Contents
1.0	Jackie Lai	2017/01/10	First Release
1.1	Jason cs Wang	2018/06/20	Update to WMI spec 2.62
1.2	Melissa Wu	2019/01/07	Update to WMI spec 2.63, 2.64, 2.65, 2.68 generic changes
1.3	Melissa Wu	2019/01/18	Update TPM command line and 'Set' result information
1.3	Melissa Wu	2019/02/20	Update „ “ to „ “, “ ” to " "
1.3	Melissa Wu	2019/03/18	Update WMI version in details
1.4	Melissa Wu	2019/04/18	Add new commands in chapter 9.1 (/export-raw-settings, /import-raw-settings, / export-custom-settings, / import-custom-settings)
1.5	Melissa Wu	2019/05/14	Update the below spec in chapter 9.2 (Clear TPM, Set Supervisor Password, Set User Password)
1.6	Jason Chiu	2019/10/02	Update to WMI spec 2.73 for ABST structure
1.7	Ivan Wang	2020/03/20	Add tool version 1.4.3004
1.8	Jason Chiu Ivan Wang	2020/05/25	Update to WMI spec 2.74 and 2.75 for ABST structure
1.9	Ivan Wang	2020/08/31	1. Update for WMI spec v2.77 2. Correct the example command of set supervisor password 3. Correct the example command of set user password 4. Correct media key return value of function key behavior 5. Add AutoTest function for ABST
1.10	Ivan Wang	2021/02/01	1. Remove “commercial” wording in Introduction chapter 2. Update for WMI spec v2.78 ➤ Remove “Real time clock reset” item 3. Update for WMI spec v2.79 ➤ Add German and Italian in display language ➤ Separate “HDDx password” and “HDDx(OPAL) password” command 4. Update for WMI spec 2.82 ➤ Rename “USB filter” item to “USB Device Filter” ➤ Add “MAC Address Pass Through” item ➤ Add “Thunderbolt Controller” item ➤ Add “World-Facing LED” item ➤ Add “Wake on LAN from Dock” item

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## 1. Introduction

Acer BIOS configuration tool is developed for ~~commercial~~ customers who need it to batch/remote change PC BIOS settings. With it user can get/set current BIOS settings or default BIOS settings.

## 2. Key Features

- ◆ Get/Set current BIOS settings
- ◆ Export/Import BIOS settings

## 3. OS and Platform Support

- ◆ OS Support: Windows PE, Windows 7, and Windows 10 x86/x64
- ◆ Project support: Projects which implement WMI Spec. v2.78-v2.82

ABST tool version	Add WMI in tool
1.00.2000	v2.53
1.00.3000	v2.53
1.00.3001	v2.56~v2.62
1.00.3002	v2.56~v2.62
1.02.3000	v2.63~v2.68
1.03.3000	v2.63~v2.68
1.04.3000	v2.69
1.04.3001	v2.70~v2.73
1.04.3003	v2.70~v2.73
1.04.3004	v2.70~v2.73
2.2.75.100	V2.74~v2.75
2.2.77.100	V2.76~v2.77
2.2.82.100	V2.78~v2.82

## 4. Multi-Brand Support

Acer brand only

## 5. Language Support

Support English only

## 6. DPI-Awareness Support

Acer BIOS configuration tool is a console mode app , it's not a DPI aware app .

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## 7. User Account Support

Acer BIOS configuration tool requires to run with administrator privilege.

## 8. App Naming

Abst32.exe for 32 bit OS

Abst64.exe for 64 bit OS

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## 9. Syntax of BIOS **setting** tool

This chapter gives you an overview of the Acer BIOS **Setting** Tool syntax. It explains how to use the **setting** tool and details BIOS items which used to get/set BIOS settings for client systems.

### 9.1 Parameters

Parameter	Description	Example
N/A	List all available parameters and options	Abst64.exe
/?	List all available parameters and options	Abst64.exe /?
/h	List all available parameters and options	Abst64.exe /h
/password "%pwd%"	Input a correct BIOS admin password to get access permission for BIOS settings	Abst64.exe /password "1234"
/get	Get BIOS setting	Abst64.exe /password "1234" /get "Time" (Get current Time)
/set	Set BIOS setting	Abst64.exe /password "1234" /set "Time=12, 05, 00" (Set time as 12:05:00)
/export-raw-settings	Export all settings to a .bin file. (Data in the .bin file is not readable and supervisor password is not contained in .bin file)	Abst64.exe /password "1234" /export-raw-settings "bios.bin"
/import-raw-settings	Import settings from a given .bin file (non-readable format) to other devices which is same model as the target device	Abst64.exe /password "1234" /import-raw-settings "bios.bin"
/ export-custom-settings	Export BIOS settings to XML (Data in the .xml file, which can change current or default BIOS setting)	Abst64.exe /password "1234" /export-custom-settings "BiosConfig.xml"
/ import-custom-settings	Import BIOS settings from XML to other devices which is same model as the target device and generate Result.txt (Refer to chapter 9.4)	Abst64.exe /password "1234" /import-custom-settings "BiosConfig2.xml"

**Details for export-raw-settings, import-raw-settings, export-custom-settings, import-custom-settings. The new parameters are defined based on the requirements from SAP tender case (Confirmed by SWPM):**

- Customer can export all settings to a .bin file by ABST tool. (.bin file is not readable and supervisor password is not contained in .bin file)
  - New command:** ABST64.exe /password "XXXX" /export-raw-settings "bios.bin"
- Customer can import this .bin file to other devices which is same model as the target device by ABST tool.
  - New command:** ABST64.exe /password "XXXX" /import-raw-settings "bios.bin"
  - Tool does not support remote deploy function. Customer IT have to adopt their own deploy mechanism
- Customer can configure BIOS settings on Acer NB device they purchased (Device A) by ABST tool and then they can export it as an external file stored on that device
  - New command:** ABST64.exe /password "XXXX" /export-custom-settings "BiosConfig.xml"

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- The exported file will be stored on local folder. Please note we will set store path to local folder of ABST.exe and it cannot be changed. File name is defined as a parameter of command.
  - The exported file will be an xml file and customer can manually configure the settings in xml file exported by ABST tool.
4. Once customer completes the configuration, customer can import this setting file to target Acer NB device (Device B, same model with Device A) they purchased
- **New command:** ABST64.exe /password "XXXX" /import-custom-settings "BiosConfig2.xml"
  - The imported file needs to be located in local folder of ABST64.exe
  - Customer needs to manage the import target device, tool does not check device compatibility
  - Tool does not support remote deploy function. Customer has to adopt their own deploy mechanism
5. Tool needs to output a log file on desktop which contains:
- Device information: Device serial number, Model name, Asset tag
  - Test result: Result.txt
    - ◆ Overall result (Pass, Fail): If any item is failed, incorrect password or password retry count exceeded, then overall result is failed. Otherwise, pass.
    - ◆ Each item (Pass, Fail, Not support, Incorrect password, Password retry count exceeded) - Based on WMI return code

## 9.2 BIOS Item

This section lists all available BIOS options which are supported by Acer BIOS Setting tool. By inputting correct BIOS option and setting, it can get or change current or default BIOS setting.

### System Function

Item	Description	Option
Intel VTX	Get/Set Intel VTX, if WMI version >= 2.73	0: Disabled 1: Enabled 255: Not Supported
		Example : Abst64.exe /password 0 /get "Intel VTX"  Abst64.exe /password "1234" /set "Intel VTX=1"
Intel VTD	Get/Set Intel VTD, if WMI version >= 2.73	0: Disabled 1: Enabled 255: Not Supported
		Example : Abst64.exe /password 0 /get "Intel VTD"  Abst64.exe /password "1234" /set "Intel

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AMD-IOMMU	Get/Set AMD IOMMU, if WMI version >= 2.56	VTD=1"
		0: Disabled 1: Enabled 255: Not Supported
		Example : Abst64.exe /password 0 /get "AMD-IOMMU"
AMD-SVM	Get/Set AMD SVM, if WMI version >= 2.56	Abst64.exe /password "1234" /set "AMD-IOMMU=1"
		0: Disabled 1: Enabled 255: Not Supported
		Example : Abst64.exe /password 0 /get "AMD-SVM"
ASF support	Get/Set ASF, if WMI version >= 2.56	Abst64.exe /password "1234" /set "AMD-SVM=1"
		0: Disabled 1: Enabled 255: Not Supported
		Example : Abst64.exe /password 0 /get "ASF support"
ASF Configuration	Get/Set ASF configuration, if WMI version >= 2.56	Abst64.exe /password "1234" /set "ASF support=1"
		0: Disabled 1: Enabled 255: Not Supported
		Example : Abst64.exe /password 0 /get "ASF Configuration"
		Abst64.exe /password "1234" /set "ASF Configuration=1"

## Device Control

Item	Description	Option
<b>Audio</b>	Get/Set Audio Controller (commercial only), if WMI version >= 2.56	0: Disabled 1: Enabled 255: Not Supported
		Example :



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		Abst64.exe /password 0 /get "Audio"
		Abst64.exe /password "1234" /set "Audio=1"
Wired LAN	Get/Set wired LAN (commercial only) , if WMI version >= 2.56	0: Disabled
		1: Enabled
		255: Not Supported
		Example : Abst64.exe /password 0 /get "Wired LAN"
		Abst64.exe /password "1234" /set "Wired LAN=1"
Wi-Fi	Get/Set Wi-Fi Module (commercial only) , if WMI version >= 2.56	0: Disabled
		1: Enabled
		255: Not Supported
		Example : Abst64.exe /password 0 /get "Wi-Fi"
		Abst64.exe /password "1234" /set "Wi-Fi=1"
WiGig	Get/Set WiGig (commercial only) , if WMI version >= 2.56	0: Disabled
		1: Enabled
		255: Not Supported
		Example : Abst64.exe /password 0 /get "WiGig"
		Abst64.exe /password "1234" /set "WiGig=1"
Bluetooth	Get/Set Bluetooth Module (commercial only) , if WMI version >= 2.56	0: Disabled
		1: Enabled
		255: Not Supported
		Example : Abst64.exe /password 0 /get "Bluetooth"
		Abst64.exe /password "1234" /set "Bluetooth=1"
3G/LTE	Get/Set 3G/LTE Module (commercial only) , if WMI version >= 2.56	0: Disabled
		1: Enabled
		255: Not Supported
		Example : Abst64.exe /password 0 /get "3G/LTE"
		Abst64.exe /password "1234" /set "3G/LTE=1"
Card Reader	Get/Set card reader (commercial only) , if WMI version >= 2.56	0: Disabled
		1: Enabled
		255: Not Supported

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**Camera**

Get/Set camera  
(commercial only) , if WMI version >= 2.56

Example :  
Abst64.exe /password 0 /get "Card Reader"

Abst64.exe /password "1234" /set "Card Reader=1"

0: Disabled  
1: Enabled  
255: Not Supported

**Fingerprint**

Get/Set fingerprint  
(commercial only) , if WMI version >= 2.56

Example :  
Abst64.exe /password 0 /get "Camera"

Abst64.exe /password "1234" /set "Camera=1"

0: Disabled  
1: Enabled  
255: Not Supported

**xHCI Support**

Get/Set xHCI, if WMI version >= 2.56

Example :  
Abst64.exe /password 0 /get "Fingerprint"

Abst64.exe /password "1234" /set "Fingerprint=1"

0: Disabled xHCI and enable eHCI  
1: Enabled xHCI  
255: Not Supported

**TBT Detection Gain**

Get/Set TBT Detection Gain, if WMI version >= 2.56

Example :  
Abst64.exe /password 0 /get "xHCI Support"

Abst64.exe /password "1234" /set "xHCI Support=1"

0: Disabled  
1: Enabled  
255: Not Supported

**Optical Drive**

Get/Set Optical Drive, if WMI version >= 2.56

Example :  
Abst64.exe /password 0 /get "TBT Detection Gain"

Abst64.exe /password "1234" /set "TBT Detection Gain=1"

0: Disabled  
1: Enabled  
255: Not Supported

Example :  
Abst64.exe /password 0 /get "Optical Drive"

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## Speaker & Headphone

Get/Set Speaker & Headphone, if WMI version >= 2.56

Abst64.exe /password "1234" /set "Optical Drive=1"

0: Disabled  
1: Enabled  
255: Not Supported

Example :

Abst64.exe /password 0 /get "Speaker & Headphone"

Abst64.exe /password "1234" /set "Speaker & Headphone=1"

## Microphone

Get/Set Microphone, if WMI version >= 2.56

0: Disabled Microphone  
1: Enabled Microphone  
255: Not Supported

Example :

Abst64.exe /password 0 /get "Microphone "

Abst64.exe /password "1234" /set "Microphone =1"

## SATA Mode

Get/Set SATA Mode, if WMI version >= 2.56

0: AHCI  
1: Optane with RAID  
2: Optane without RAID  
3: RAID  
255: Not Supported

Example :

Abst64.exe /password 0 /get "SATA Mode"

Abst64.exe /password "1234" /set "SATA Mode=1"

## USB Device Filter

Get/Set USB Device Filter, if WMI version >= 2.77

0: All Allowed  
1: Keyboard/Mouse Only  
2: USB Storage Read-Only  
255: Not supported

Example :

Abst64.exe /password 0 /get "USB Device Filter"

Abst64.exe /password "1234" /set "USB Device Filter=1"

## CNVi WLAN/BT

Get/Set CNVi WLAN/BT, if WMI version >= 2.75

0: Disable  
1: Enable  
255: Not supported

Example :

Abst64.exe /password 0 /get "CNVi WLAN/BT "

Abst64.exe /password "1234" /set "CNVi

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WLAN/BT=1"

## MAC Address Pass Through

Get/Set MAC address Pass Through, if WMI version >= 2.82

0: Disable  
1: Enable  
255: Not supported

Example :  
Abst64.exe /password 0 /get "MAC Address Pass Through"

Abst64.exe /password "1234" /set "MAC Address Pass Through=1"

## Thunderbolt Controller

Get/Set Thunderbolt Controller, if WMI version >= 2.82

0: Disable  
1: Enable  
255: Not supported

Example :  
Abst64.exe /password 0 /get "Thunderbolt Controller"

Abst64.exe /password "1234" /set "Thunderbolt Controller=1"

## World-Facing LED

Get/Set World-Facing LED, if WMI version >= 2.82

0: Disable  
1: S3/S4/S5 only  
16: Enabled  
255: Not supported

Example :  
Abst64.exe /password 0 /get "World-Facing LED"

Abst64.exe /password "1234" /set "World-Facing LED=1"

## IO Ports

Item	Description	Option
USB Ports	Get/Set USB Ports (commercial only) , if WMI version >= 2.56	0: Disabled 1: Enabled 255: Not Supported
		Example : Abst64.exe /password 0 /get "USB Ports"  Abst64.exe /password "1234" /set "USB Ports=1"
Type C	Get/Set Type C Ports (commercial only) , if WMI version >= 2.56	0: Disabled 1: Enabled 255: Not Supported
		Example : Abst64.exe /password 0 /get "Type C"

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<b>HDD0 Port/HDD0 (OPAL) Port</b>	Get/Set HDD0 Port/HDD0(OPAL) Port (OPAL) Port, if WMI version >= 2.73	Abst64.exe /password "1234" /set "Type C=1" 0: Disabled 1: Enabled 255: Not Supported  Example : Abst64.exe /password 0 /get " HDD0 Port/HDD0(OPAL) Port "  Abst64.exe /password "1234" /set " HDD0 Port/HDD0(OPAL) Port =1"
<b>HDD1 Port/HDD1 (OPAL) Port</b>	Get/Set HDD1 Port/HDD1(OPAL) Port (OPAL) Port, if WMI version >= 2.73	0: Disabled 1: Enabled 255: Not Supported  Example : Abst64.exe /password 0 /get " HDD1 Port/HDD1(OPAL) Port "  Abst64.exe /password "1234" /set " HDD1 Port/HDD1(OPAL) Port =1"
<b>HDD2 Port/HDD2 (OPAL) Port</b>	Get/Set HDD2 Port/HDD2(OPAL) Port (OPAL) Port, if WMI version >= 2.73	0: Disabled 1: Enabled 255: Not Supported  Example : Abst64.exe /password 0 /get " HDD2 Port/HDD2(OPAL) Port "  Abst64.exe /password "1234" /set " HDD2 Port/HDD2(OPAL) Port =1"
<b>HDD3 Port/HDD3 (OPAL) Port</b>	Get/Set HDD3 Port/HDD3(OPAL) Port (OPAL) Port, if WMI version >= 2.73	0: Disabled 1: Enabled 255: Not Supported  Example : Abst64.exe /password 0 /get " HDD3 Port/HDD3(OPAL) Port "  Abst64.exe /password "1234" /set " HDD3 Port/HDD3(OPAL) Port =1"
<b>HDD4 Port/HDD4 (OPAL) Port</b>	Get/Set HDD4 Port/HDD4 (OPAL) Port, if WMI version >= 2.73	0: Disabled 1: Enabled 255: Not Supported  Example : Abst64.exe /password 0 /get " HDD4 Port/HDD4(OPAL) Port "  Abst64.exe /password "1234" /set " HDD4 Port/HDD4(OPAL) Port =1"
<b>HDD5 Port/HDD5</b>	Get/Set HDD5 Port/HDD5	0: Disabled

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<b>(OPAL) Port</b>	(OPAL) Port, if WMI version >= 2.73	1: Enabled 255: Not Supported  Example : Abst64.exe /password 0 /get " HDD5 Port/HDD5(OPAL) Port "  Abst64.exe /password "1234" /set " HDD5 Port/HDD5(OPAL) Port =1"
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## Power and Event Control

Item	Description	Option
<b>Network Boot</b>	Get/Set network boot, if WMI version >= 2.56	0: Disabled 1: Enabled 255: Not Supported  Example : Abst64.exe /password 0 /get "Network Boot"  Abst64.exe /password "1234" /set "Network Boot=1"
<b>Wake on LAN</b>	Get/Set wake on LAN, if WMI version >= 2.56	0: Disabled 1: Enabled 255: Not Supported  Example : Abst64.exe /password 0 /get "Wake on LAN"  Abst64.exe /password "1234" /set "Wake on LAN=1"
<b>Lid Open Resume</b>	Get/Set lid open resume, if WMI version >= 2.56	0: Disabled 1: Enabled 255: Not Supported  Example : Abst64.exe /password 0 /get "Lid Open Resume"  Abst64.exe /password "1234" /set "Lid Open Resume=1"
<b>Wake on WLAN</b>	Get/Set wake on WLAN (commercial only) , if WMI version >= 2.56	0: Disabled 1: Enabled 255: Not Supported  Example : Abst64.exe /password 0 /get "Wake on WLAN"  Abst64.exe /password "1234" /set "Wake on WLAN=1"

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<b>Power-off USB Charge</b>	Get/Set Power off USB (commercial only) , if WMI version >= 2.56	0: Disabled 1: Enabled 255: Not Supported  Example : Abst64.exe /password 0 /get "power-off USB Charge"  Abst64.exe /password "1234" /set "Power-off USB Charge=1"
<b>Battery Threshold</b>	Get/Set Battery Threshold (commercial only) , if WMI version >= 2.56 not support when 'Power-off USB Charge' is set to 'Disabled'	1: 10% 2: 20% 3: 30% 255: Not Supported  Example : Abst64.exe /password 0 /get "Battery Threshold"  Abst64.exe /password "1234" /set "Battery Threshold=2"
<b>USB Boot</b>	Get/Set USB Boot, if WMI version >= 2.56	0: Disabled 1: Enabled 255: Not Supported  Example : Abst64.exe /password 0 /get "USB Boot"  Abst64.exe /password "1234" /set "USB Boot=1"
<b>TBT Wake</b>	Get/Set TBT Wake, if WMI version >= 2.56	0: Disabled 1: Enabled 255: Not Supported  Example : Abst64.exe /password 0 /get "TBT Wake"  Abst64.exe /password "1234" /set "TBT Wake=1"
<b>Wake on USB while lid closed</b>	Get/Set Wake on USB while lid closed, if WMI version >= 2.56	0: Disabled 1: Enabled 255: Not Supported  Example : Abst64.exe /password 0 /get "Wake on USB while lid closed"  Abst64.exe /password "1234" /set "Wake on USB while lid closed=1"
<b>Power On by RTC Alarm</b>	Get/Set Power On by RTC Alarm, if WMI version >= 2.73	0: Disabled 1: Enabled

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255: Not Supported

Example :

Abst64.exe /password 0 /get " Power On by RTC Alarm "

Abst64.exe /password "1234" /set " Power On by RTC Alarm =1"

**Hour** Get/Set Hour, if WMI version >= 2.56

0~23: hour  
255: Not Supported

Example :

Abst64.exe /password 0 /get " Hour "

Abst64.exe /password "1234" /set " Hour =1"

**Minute** Get/Set Minute, if WMI version >= 2.56

0~59: minute  
255: Not Supported

Example :

Abst64.exe /password 0 /get " Minute "

Abst64.exe /password "1234" /set " Minute =1"

**Second** Get/Set Second, if WMI version >= 2.56

0~59: second  
255: Not Supported

Example :

Abst64.exe /password 0 /get " Second "

Abst64.exe /password "1234" /set " Second =1"

**TBT Wake from S4 Support** Get/Set TBT Wake from S4 Support, if WMI version >= 2.61

0: Disabled  
1: Enabled  
255: Not Supported

Example :

Abst64.exe /password 0 /get "TBT Wake from S4 Support "

Abst64.exe /password "1234" /set "TBT Wake from S4 Support =1"

**USB Wake from S4 Support** Get/Set USB Wake from S4 Support, if WMI version >= 2.61

0: Disabled  
1: Enabled  
255: Not Supported

Example :

Abst64.exe /password 0 /get "USB Wake from S4 Support "

Abst64.exe /password "1234" /set "USB Wake from S4 Support =1"

**Wake on LAN from** Get/Set wake on LAN from dock, if WMI

0: Disabled



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## Dock

version >= 2.82

1: Enabled  
255: Not Supported

Example :  
Abst64.exe /password 0 /get "Wake on LAN from Dock"

Abst64.exe /password "1234" /set "Wake on LAN from Dock=1"

## Security

Item	Description	Option
<b>Current TPM (TCM) State (For TPM 1.2)</b>	Get TPM(TCM) state TPM 1.2 only, if WMI version >= 2.56	0: Disabled & Deactive 1: Enabled & Active 255: Not Supported  Example : Abst64.exe /password "1234" /get "Current TPM 1.2 State"
<b>Current TPM (TCM) State (For TPM 2.0)</b>	Get TPM(TCM) state TPM 2.0 and later, if WMI version >= 2.56	0: Not Installed 1: Installed 255: Not Supported  Example : Abst64.exe /password "1234" /get "Current TPM 2.0 State"
<b>Change TPM (TCM) State (For TPM 1.2)</b>	Set TPM(TCM) state TPM 1.2 only, if WMI version >= 2.56	0: Disabled & Deactive 1: Enabled & Active 2: No Change 255: Not Supported  Example : Abst64.exe /password "1234" /set "Change TPM 1.2 State=1"
<b>Change TPM (TCM) State (For TPM 2.0)</b>	Set TPM(TCM) state TPM 2.0 and later, if WMI version >= 2.56	0: Disabled 1: Enabled 255: Not Supported  Example : Abst64.exe /password "1234" /set "Change TPM 2.0 State=1"
<b>Clear TPM (TCM)</b>	Clear TPM(TCM) , if WMI version >= 2.56	0: Do nothing 1: Clear 254: Function Supported 255: Not Supported

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## Supervisor Password is (Status)

Get Supervisor Password status, if WMI version  $\geq$  2.56

Example :  
Abst64.exe /password "1234" /set "Clear TPM(TCM)=1"  
0: Clear  
1: Set  
255: Not Supported

## User Password is (Status)

Get User Password status, if WMI version  $\geq$  2.56

Example :  
Abst64.exe /password 0 /get "Supervisor Password is Status"  
0: Clear  
1: Set  
255: Not Supported

## Absolute Persistence Module

Get/Set Absolute Persistence Module status, if WMI version  $\geq$  2.77

Example :  
Abst64.exe /password 0 /get "User Password is Status"  
0: Disabled  
1: Enabled  
2: Permanently Disabled  
255: Not Supported

## Set Supervisor Password

Set Supervisor Password, if WMI version  $\geq$  2.73  
Clear password, if WMI version  $\geq$  2.71

Example :  
Abst64.exe /password 0 /get "Absolute Persistence Module"  
Abst64.exe /password "1234" /set "Absolute Persistence Module =1"  
Byte[0]: current password length  
Byte[16:1]: current password context in UTF-8 (16 bytes)  
Byte[17]: new password length  
Byte[33:18]: new password context in UTF-8 (16 bytes)  
Empty: Clear password

Example :  
Clear password  
Abst64.exe /password "1234" /set "current password=1234,Set Supervisor Password="

From clear to set password  
Abst64.exe /password 0 /set "current password= ,Set Supervisor Password=1234"

Change password  
Abst64.exe /password "1234" /set "current

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## Set User Password

Set User Password, if WMI version >= 2.73

Clear password, if WMI version >= 2.71

password=1234,Set Supervisor Password=5678"

Byte[0]: current password length  
Byte[16:1]: current password context in UTF-8 (16 bytes)  
Byte[17]: new password length  
Byte[33:18]: new password context in UTF-8 (16 bytes)  
Empty: Clear password

Example :

Clear password

Abst64.exe /password "1234" /set "current password=1111,Set User Password="

From clear to set password

Abst64.exe /password "1234" /set "current password= ,Set User Password=1111"

Change password

Abst64.exe /password "1234" /set "current password=1111,Set User Password=2222"

## Password on Boot

Get/Set Password on boot, if WMI version >= 2.56

0: Disabled  
1: Enabled  
255: Not Supported

Example :

Abst64.exe /password 0 /get "Password on Boot"

Abst64.exe /password "1234" /set "Password on Boot=1"

## Secure Boot

Get/Set Secure Boot status, if WMI version >= 2.56

0: Disabled  
1: Enabled  
255: Not Supported

Example :

Abst64.exe /password 0 /get "Secure Boot"

Abst64.exe /password "1234" /set "Secure Boot=1"

## HDD0/HDD0(OPAL)Password Is(Status)

Get HDD0/HDD0(OPAL)Password Is(Status), if WMI version >= 2.73

0: Disabled  
1: Enabled  
255: Not Supported

Example :

Abst64.exe /password 0 /get

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<b>HDD1/HDD1(OPAL)Password Is(Status)</b>	Get HDD1/HDD1(OPAL)Password Is(Status), if WMI version >= 2.73	"hdd0/hdd0(opal) password is status"
		0: Disabled 1: Enabled 255: Not Supported
<b>HDD2/HDD2(OPAL)Password Is(Status)</b>	Get HDD2/HDD2(OPAL)Password Is(Status), if WMI version >= 2.73	Example : Abst64.exe /password 0 /get " hdd1/hdd1(opal) password is status "
		0: Disabled 1: Enabled 255: Not Supported
<b>HDD3/HDD3(OPAL)Password Is(Status)</b>	Get HDD3/HDD3(OPAL)Password Is(Status), if WMI version >= 2.73	Example : Abst64.exe /password 0 /get " hdd2/hdd2(opal) password is status "
		0: Disabled 1: Enabled 255: Not Supported
<b>HDD4/HDD4(OPAL)Password Is(Status)</b>	Get HDD4/HDD4(OPAL)Password Is(Status), if WMI version >= 2.73	Example : Abst64.exe /password 0 /get " hdd3/hdd3(opal) password is status "
		0: Disabled 1: Enabled 255: Not Supported
<b>HDD5/HDD5(OPAL)Password Is(Status)</b>	Get HDD5/HDD5(OPAL)Password Is(Status), if WMI version >= 2.73	Example : Abst64.exe /password 0 /get " hdd4/hdd4(opal) password is status "
		0: Disabled 1: Enabled 255: Not Supported
		Example : Abst64.exe /password 0 /get " hdd5/hdd5(opal) password is status "

## Post Behaviors

Item	Description	Option
<b>F12 Boot Menu</b>	Get/Set Boot Menu setting, if WMI version >= 2.56	0: Disabled 1: Enabled 255: Not Supported
		Example : Abst64.exe /password 0 /get "F12 Boot Menu"  Abst64.exe /password "1234" /set "F12 Boot

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<b>Function key behavior</b>	Get/Set Function key, if WMI version >= 2.56	Menu=1"
		0: Function Key 2: Media Key 255: Not Supported
<b>D2D Recovery</b>	Get/Set D2D Recovery setting, if WMI version >= 2.56	Example : Abst64.exe /password 0 /get "Function key behavior"  Abst64.exe /password "1234" /set "Function key behavior=1"
		0: Disabled 1: Enabled 255: Not Supported
<b>Boot Mode</b>	Get/Set Boot Mode, if WMI version >= 2.56	Example : Abst64.exe /password 0 /get "D2D Recovery"  Abst64.exe /password "1234" /set "D2D Recovery=1"
		0: Legacy 1: UEFI 255: Not Supported
<b>Display Language</b>	Get/Set Display Language, if WMI version >= 2.73	Example : Abst64.exe /password 0 /get "Boot Mode"  Abst64.exe /password "1234" /set "Boot Mode=1"
		0: English 1: Danish 2: Spanish 3: Portuguese 4: Norwegian 5: Swedish 6: Dutch 7: Japanese 8: Traditional Chinese 9: French 10: Simplified Chinese 11: Thai 12: Russian 13: Finnish 14: German 15: Italian 255: Not Supported
<b>Display Language</b>	Get/Set Display Language, if WMI version >= 2.73	Example : Abst64.exe /password 0 /get "Display Language"  Abst64.exe /password "1234" /set "Display Language=1"

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## Keyboard backlight timeout

Get/Set Keyboard backlight

timeout, if WMI version  $\geq$  2.73

0: Disabled

1: Enabled

255: Not Supported

Example :

Abst64.exe /password 0 /get "Keyboard  
backlight timeout "

Abst64.exe /password "1234" /set "Keyboard  
backlight timeout =1"

## Internal KB Numpad

Get/Set Internal KB Numpad, if WMI  
version  $\geq$  2.73

0: Disabled

1: Enabled

255: Not Supported

Example :

Abst64.exe /password 0 /get "Internal KB  
Numpad"

Abst64.exe /password "1234" /set "Internal KB  
Numpad =1"

## Fast Boot

Get/Set Fast Boot, if WMI version  $\geq$  2.73

0: Disabled

1: Enabled

255: Not Supported

Example :

Abst64.exe /password 0 /get "Fast Boot"

Abst64.exe /password "1234" /set "Fast Boot  
=1"

## Lock BIOS version

Get/Set Lock BIOS version, if WMI version  
 $\geq$  2.73

0: Disabled

1: Enabled

255: Not Supported

Example :

Abst64.exe /password 0 /get "Lock BIOS  
version"

Abst64.exe /password "1234" /set "Lock BIOS  
version=1"

## Rollback Old BIOS Version

Get/Set Rollback Old BIOS Version, if WMI  
version  $\geq$  2.73

0: Unsupported

1: Supported

255: Function Not Supported

Example :

Abst64.exe /password 0 /get "Rollback Old  
BIOS Version "

Abst64.exe /password "1234" /set "Rollback  
Old BIOS Version =1"

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## Boot Priority Order

Get/Set Boot Priority Order  
 Follow 'Boot Device Table', if WMI version  
 >= 2.56

Byte[0]: 1st priority  
 Byte[1]: 2nd priority  
 Byte[2]: 3rd priority  
 ...  
 Byte[16]: 16th priority  
 255: terminate

Example :

Abst64.exe /password 0 /get "Boot Priority Order"

Abst64.exe /password "1234" /set "Boot Priority Order=1,2,16,17,255"

## POST Animation & Sound

Get/Set D2D POST Animation & Sound, if  
 WMI version >= 2.56

0: Disabled  
 1: Enabled  
 255: Not Supported

Example :

Abst64.exe /password 0 /get "POST Animation & Sound"

Abst64.exe /password "1234" /set "POST Animation & Sound=1"

## Sound

Get/Set Sound, if WMI version >= 2.73

0: Mute  
 1: Unmute  
 255: Not Supported

Example :

Abst64.exe /password 0 /get "Sound"

Abst64.exe /password "1234" /set "Sound=1"

## Save Settings to User Setup Defaults

Set Save Settings to User Setup Defaults, if  
 WMI version >= 2.77

0: Do Nothing  
 1: Save  
 255: Not Supported

Example :

Abst64.exe /password "1234" /set "Save Settings to User Setup Defaults=1"

## Expansion

Item	Description	Option
Set HDD0/ <del>HDD0(OPAL)</del> Password	Set HDD0/ <del>HDD0(OPAL)</del> Password, if WMI version >= 2.73  Clear password, if WMI version >= 2.71	Byte[0]: current password length Byte[16:1]: current password context in UTF-8 (16 bytes) Byte[17]: new password length

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Byte[33:18]: new password context in UTF-8 (16 bytes)  
Empty: Clear password

Example :

Clear password

Abst64.exe /password "1234" /set "current password=1234,Set HDD0 Password="

From clear to set password

Abst64.exe /password 0 /set "current password= ,Set HDD0 Password=1234"

Abst64.exe /password "1234" /set "current password=1111,Set HDD0 Password=4567"

## Set HDD1/~~HDD1(OPAL)~~ Password

Set HDD1/~~HDD1(OPAL)~~

Password, if WMI version >= 2.73

Clear password, if WMI version >= 2.71

Byte[0]: current password length  
Byte[16:1]: current password context in UTF-8 (16 bytes)  
Byte[17]: new password length  
Byte[33:18]: new password context in UTF-8 (16 bytes)  
Empty: Clear password

Example :

Clear password

Abst64.exe /password "1234" /set "current password=1234,Set HDD1 Password="

From clear to set password

Abst64.exe /password 0 /set "current password= ,Set HDD1 Password=1234"

Abst64.exe /password "1234" /set "current password=1111,Set HDD1 Password=4567"

## Set HDD2/~~HDD2(OPAL)~~ Password

Set HDD2/~~HDD2(OPAL)~~

Password, if WMI version >= 2.73

Clear password, if WMI version >= 2.71

Byte[0]: current password length  
Byte[16:1]: current password context in UTF-8 (16 bytes)  
Byte[17]: new password length  
Byte[33:18]: new password context in UTF-8 (16 bytes)  
Empty: Clear password



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## Set HDD3/~~HDD3(OPAL)~~ Password

Set HDD3/~~HDD3(OPAL)~~

Password, if WMI version  $\geq 2.73$

Clear password, if WMI version  $\geq 2.71$

Example :

**Clear password**

Abst64.exe /password "1234" /set "current password=1234,Set HDD2 Password="

**From clear to set password**

Abst64.exe /password 0 /set "current password= ,Set HDD2 Password=1234"

Abst64.exe /password "1234" /set "current password=1111,Set HDD2 Password=4567"

Byte[0]: current

password length

Byte[16:1]: current

password context in UTF-8 (16 bytes)

Byte[17]: new password length

Byte[33:18]: new password context in UTF-8 (16 bytes)

Empty: Clear password

Example :

**Clear password**

Abst64.exe /password "1234" /set "current password=1234,Set HDD3 Password="

**From clear to set password**

Abst64.exe /password 0 /set "current password= ,Set HDD3 Password=1234"

Abst64.exe /password "1234" /set "current password=1111,Set HDD3 Password=4567"

Byte[0]: current

password length

Byte[16:1]: current

password context in UTF-8 (16 bytes)

Byte[17]: new password length

Byte[33:18]: new password context in UTF-8 (16 bytes)

Empty: Clear password

Example :

**Clear password**

Abst64.exe /password "1234" /set "current

## Set HDD4/~~HDD4(OPAL)~~ Password

Set HDD4/~~HDD4(OPAL)~~

Password, if WMI version  $\geq 2.73$

Clear password, if WMI version  $\geq 2.71$

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password=1234,Set HDD4 Password="

## From clear to set password

Abst64.exe /password 0 /set "current password= ,Set HDD4 Password=1234"

Abst64.exe /password "1234" /set "current password=1111,Set HDD4 Password=4567"

Byte[0]: current password length  
 Byte[16:1]: current password context in UTF-8 (16 bytes)  
 Byte[17]: new password length  
 Byte[33:18]: new password context in UTF-8 (16 bytes)  
 Empty: Clear password

Example :

## Clear password

Abst64.exe /password "1234" /set "current password=1234,Set HDD5 Password="

## From clear to set password

Abst64.exe /password 0 /set "current password= ,Set HDD5 Password=1234"

Abst64.exe /password "1234" /set "current password=1111,Set HDD5 Password=4567"

Byte[31:0]: PSID

Example :

Abst64.exe /password "1234" /set "Revert HDD0(OPAL)

Device=11112222333344445555666677778888"

Byte[31:0]: PSID

Example :

Abst64.exe /password "1234" /set "Revert HDD1(OPAL)

Device=11112222333344445555666677778888"

Byte[31:0]: PSID

Example :

Abst64.exe /password "1234" /set "Revert HDD2(OPAL)

Device=11112222333344445555666677778888"

Byte[31:0]: PSID

## Set HDD5/~~HDD5(OPAL)~~ Password

Set HDD5/~~HDD5(OPAL)~~

Password, if WMI version >= 2.73

Clear password, if WMI version >= 2.71

## Revert HDD0(OPAL) Device

Set HDD0(OPAL) Device, if WMI version >=2.74

## Revert HDD1(OPAL) Device

Set HDD1(OPAL) Device, if WMI version >=2.74

## Revert HDD2(OPAL) Device

Set HDD2(OPAL) Device, if WMI version >=2.74

## Revert HDD3(OPAL) Device

Set HDD3(OPAL) Device, if WMI version >=2.74

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Example :  
Abst64.exe /password "1234" /set "Revert  
HDD3(OPAL)  
Device=11112222333344445555666677778888"

<b>Revert HDD4(OPAL) Device</b>	Set HDD4(OPAL) Device, if WMI version >=2.74	Byte[31:0]: PSID  Example : Abst64.exe /password "1234" /set "Revert HDD4(OPAL) Device=11112222333344445555666677778888"
<b>Revert HDD5(OPAL) Device</b>	Set HDD5(OPAL) Device, if WMI version >=2.74	Byte[31:0]: PSID  Example : Abst64.exe /password "1234" /set "Revert HDD5(OPAL) Device=11112222333344445555666677778888"
<b>AutoTest</b>	The AutoTest function will be supported on ABST tool if WMI version >= 2.76	Example: Abst64.exe /password "1" /get "autotest"

Boot device table

Value	Meaning
1	1st HDD
2	CD/DVD Drive
3	SCSI
4	D2D recovery
5	(Reserved)
6	PCMCIA
7	Network
8	(Reserved)
9	1394 CD-ROM
10	USB HDD
11	USB CD-ROM
12	USB Floppy
13	USB Key
14	2nd HDD
16	USB Other Devices
17	USB To Go (UEFI boot)
18	IPV6 (UEFI boot)
19	Windows Boot Manager (UEFI boot)

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Other Bootable Devices

## Date and Time

Item	Description	Option
<b>System Date</b> <b>(MM/DD/YY)</b>	Get/Set System Date, if WMI version >= 2.56	Byte[0]: Date Byte[1]: Month Byte[2]: Year i.g. Byte[2]= 0x10 for 2016 238: Do not need to update at this time 255: Not Supported  Example : Abst64.exe /password 0 /get "Date"  Abst64.exe /password "1234" /set "Date"="YYYY","M","D" Abst64.exe /password "1234" /set "Date=2017,1,18"
<b>System Time</b> <b>(HH:MM:SS)</b>	Get/Set System Time 24 hour format, if WMI version >= 2.56	Byte[0]: Second (0~59) Byte[1]: Minute (0~59) Byte[2]: Hour (0~23) 238: Do not need to update at this time 255: Not Supported  Example : Abst64.exe /password 0 /get "Time"  Abst64.exe /password "1234" /set "Time=01:56:00"  Abst64.exe /password "1234" /set "Time=13,20,50"

## 9.3 Return Code

Code	Description
0	Success
1	Not support
2	Incorrect Password
3	Invalid Parameter
7	Password retry count exceeded
8	Set BIOS default options success and reboot required to make function works
D1	Incompatible Data Structure. BIOS Setup Data is unexpected

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## 9.4 AutoTest

The Auto test function could automatically test all ABST items. It will generate resulted report “ABST\_AutoTestResult.html ” after finishing auto run.

```
Offset : 260
Size : 34
end : 294
set user password:
Offset : 235
Size : 1
end : 236
flag for setting : 2
Enter Current password :
1
Enter Changed password :
11
```

Note 1: Supervisor password and User password need to be pre-setting if would like to run AutoTest.

Note 2: The supported version need to be more than WMI version 2.76 for AutoTest function

## 9.5 Result.txt

Result format

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Model name : TravelMate P614-51G

Serial number : 1234567890123456789012

Asset tag number :

Overall result : Pass

=====Result of each settings=====

3g/lte: Pass

audio: Pass