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PRODUCT EXTERNAL SPECIFICATION of Acer BIOS Setting Tool (NB) v1.3

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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 " "

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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

3. OS and Platform Support

- ◆ OS Support: Windows PE, Windows 7, and Windows 10 x86/x64
 - ◆ Project support: Projects which implement WMI Spec. v2.63, v2.64, v2.65, v2.68 or later

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 .

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 configuration tool

This chapter gives you an overview of the Acer BIOS Configuration Tool syntax. It explains how to use the configuration 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", "5", "0" (Set time as 12:05:00)

9.2 BIOS Item

This section list all available BIOS options which supported by Acer BIOS Configuration tool. By input correct BIOS option and setting, it can get or change current or default BIOS setting.

Device Control

Item	Description	Option
VTX	Get/Set VTX	0: Disabled 1: Enabled 255: Not Supported Example : Abst64.exe /password 0 /get "VTX" Abst64.exe /password "1234" /set "VTX=1"
VTD	Get/Set VTD	0: Disabled 1: Enabled 255: Not Supported Example : Abst64.exe /password 0 /get "VTD" Abst64.exe /password "1234" /set "VTD=1"

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AMD-IOMMU Get/Set AMD IOMMU

0: Disabled
1: Enabled
255: Not Supported

Example :
Abst64.exe /password 0 /get "AMD-IOMMU"

Abst64.exe /password "1234" /set "AMD-IOMMU=1"

AMD-SVM Get/Set AMD SVM

0: Disabled
1: Enabled
255: Not Supported

Example :
Abst64.exe /password 0 /get "AMD-SVM"

Abst64.exe /password "1234" /set "AMD-SVM=1"

ASF support Get/Set ASF

0: Disabled
1: Enabled
255: Not Supported

Example :
Abst64.exe /password 0 /get "ASF support"

Abst64.exe /password "1234" /set "ASF support=1"

ASF Configuration Get/Set ASF configuration

0: Disabled
1: Enabled
255: Not Supported

Example :
Abst64.exe /password 0 /get "ASF Configuration"

Abst64.exe /password "1234" /set "ASF Configuration=1"

Audio Get/Set Audio Controller (commercial only)

0: Disabled
1: Enabled
255: Not Supported

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

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

Wired LAN Get/Set wired LAN (commercial only)

0: Disabled
1: Enabled
255: Not Supported

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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)

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)

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)

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)

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)

0: Disabled
1: Enabled
255: Not Supported

Example :

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

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

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Camera

Get/Set camera

(commercial only)

0: Disabled
1: Enabled
255: Not Supported

Example :

Abst64.exe /password 0 /get "Camera"

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

Fingerprint

Get/Set fingerprint

(commercial only)

0: Disabled
1: Enabled
255: Not Supported

Example :

Abst64.exe /password 0 /get "Fingerprint"

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

xHCI Support

Get/Set xHCI

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

Example :

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

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

TBT Detection Gain

Get/Set TBT Detection Gain

0: Disabled TBT Detection Gain
1: Enabled TBT Detection Gain
255: Not Supported

Example :

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

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

Optical Drive

Get/Set Optical Drive

0: Disabled Optical Drive
1: Enabled Optical Drive
255: Not Supported

Example :

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

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

Speaker & Headphone

Get/Set Speaker & Headphone

0: Disabled Speaker & Headphone
1: Enabled Speaker & Headphone
255: Not Supported

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Example :

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

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

Microphone

Get/Set Microphone

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

0: Disabled SATA Mode

1: Enabled SATA Mode

255: Not Supported

Example :

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

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

IO Ports

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

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SATA Port 0/HDD 0 Port	Get/Set SATA/HDD Port	0: Disabled 1: Enabled 255: Not Supported Example : Abst64.exe /password 0 /get "SATA Port 0/HDD 0 Port" Abst64.exe /password "1234" /set "SATA Port 0/HDD 0 Port=1"
SATA Port 1/HDD 1 Port	Get/Set SATA/HDD Port	0: Disabled 1: Enabled 255: Not Supported Example : Abst64.exe /password 0 /get "SATA Port 1/HDD 1 Port" Abst64.exe /password "1234" /set "SATA Port 1/HDD 1 Port=1"
SATA Port 2/HDD 2 Port	Get/Set SATA/HDD Port	0: Disabled 1: Enabled 255: Not Supported Example : Abst64.exe /password 0 /get "SATA Port 2/HDD 2 Port" Abst64.exe /password "1234" /set "SATA Port 2/HDD 2 Port=1"
SATA Port 3/HDD 3 Port	Get/Set SATA/HDD Port	0: Disabled 1: Enabled 255: Not Supported Example : Abst64.exe /password 0 /get "SATA Port 3/HDD 3 Port" Abst64.exe /password "1234" /set "SATA Port 3/HDD 3 Port=1"
SATA Port 4/HDD 4 Port	Get/Set SATA/HDD Port	0: Disabled 1: Enabled 255: Not Supported Example : Abst64.exe /password 0 /get "SATA Port 4/HDD 4 Port" Abst64.exe /password "1234" /set "SATA Port 4/HDD 4 Port=1"

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SATA Port 5/HDD 5 Port

Get/Set SATA/HDD Port

0: Disabled
1: Enabled
255: Not Supported

Example :

Abst64.exe /password 0 /get "SATA Port 5/HDD 5 Port"

Abst64.exe /password "1234" /set "SATA Port 5/HDD 5 Port=1"

OPAL Device 0 Port

Get/Set OPAL Device Port

0: Disabled
1: Enabled
255: Not Supported

Example : Abst64.exe /password 0 /get "OPAL Device 0 Port"

Abst64.exe /password "1234" /set "OPAL Device 0 Port=1"

OPAL Device 1 Port

Get/Set OPAL Device Port

0: Disabled
1: Enabled
255: Not Supported

Example : Abst64.exe /password 0 /get "OPAL Device 1 Port"

Abst64.exe /password "1234" /set "OPAL Device 1 Port=1"

OPAL Device 2 Port

Get/Set OPAL Device Port

0: Disabled
1: Enabled
255: Not Supported

Example : Abst64.exe /password 0 /get "OPAL Device 2 Port"

Abst64.exe /password "1234" /set "OPAL Device 2 Port=1"

OPAL Device 3 Port

Get/Set OPAL Device Port

0: Disabled
1: Enabled
255: Not Supported

Example : Abst64.exe /password 0 /get "OPAL Device 3 Port"

Abst64.exe /password "1234" /set "OPAL Device 3 Port=1"

OPAL Device 4 Port

Get/Set OPAL Device Port

0: Disabled
1: Enabled
255: Not Supported

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Example : Abst64.exe /password 0 /get "OPAL Device 4 Port"

Abst64.exe /password "1234" /set "OPAL Device 4 Port=1"

OPAL Device 5 Port

Get/Set OPAL Device Port

0: Disabled
1: Enabled
255: Not Supported

Example : Abst64.exe /password 0 /get "OPAL Device 5 Port"

Abst64.exe /password "1234" /set "OPAL Device 5 Port=1"

Power and Event Control

Item	Description	Option
Network Boot	Get/Set network boot	0: Disabled 1: Enabled 255: Not Supported
		Example : Abst64.exe /password 0 /get "Network Boot" Abst64.exe /password "1234" /set "Network Boot=1"
Wake on LAN	Get/Set wake on LAN	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"
Lid Open Resume	Get/Set lid open resume	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"

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Wake on WLAN

Get/Set wake on WLAN
(commercial only)

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"

Power-off USB Charge

Get/Set Power off USB
(commercial only)

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"

Battery Threshold

Get/Set Battery Threshold
(commercial only)
not support when 'Power-off USB Charge'
is set to

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"

USB Boot

Get/Set USB Boot

0: Disabled
1: Enabled
255: Not Supported

Example :
Abst64.exe /password 0 /get "USB Boot"

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

TBT Wake

Get/Set TBT Wake

0: Disabled
1: Enabled
255: Not Supported

Example :
Abst64.exe /password 0 /get "TBT Wake"

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

Wake on USB while lid closed

Get/Set Wake on USB while lid closed

0: Disabled
1: Enabled
255: Not Supported

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Wake Up System on time	Get/Set Wake Up System on time	Example : Abst64.exe /password 0 /get "Wake on USB while lid closed"
		Abst64.exe /password "1234" /set "Wake on USB while lid closed=1" 0: Disabled 1: Enabled 255: Not Supported
Wake Up hour	Get/Set Wake Up hour	Example : Abst64.exe /password 0 /get "Wake Up System on time"
		Abst64.exe /password "1234" /set "Wake Up System on time=1" 0~23: hour 255: Not Supported
Wake Up minute	Get/Set Wake Up minute	Example : Abst64.exe /password 0 /get "Wake Up hour"
		Abst64.exe /password "1234" /set "Wake Up hour=1" 0~59: minute 255: Not Supported
Wake Up second	Get/Set Wake Up second	Example : Abst64.exe /password 0 /get "Wake Up minute"
		Abst64.exe /password "1234" /set "Wake Up minute=1" 0~59: second 255: Not Supported
TBT Wake from S4 Support	Get/Set TBT Wake from S4 Support	Example : Abst64.exe /password 0 /get "Wake Up second"
		Abst64.exe /password "1234" /set "Wake Up second=1" 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"

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USB Wake from S4 Support	Get/Set USB Wake from S4 Support	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"
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Security

Item	Description	Option
Current TPM (TCM) State (For TPM 1.2)	Get TPM(TCM) state TPM 1.2 only	0: Disabled & Deactive 1: Enabled & Active 255: Not Supported Example : Abst64.exe /password "1234" /get "Current TPM 1.2 State"
Current TPM (TCM) State (For TPM 2.0)	Get TPM(TCM) state TPM 2.0 and later	0: Not Installed 1: Installed 255: Not Supported Example : Abst64.exe /password "1234" /get "Current TPM 2.0 State"
Change TPM (TCM) State (For TPM 1.2)	Set TPM(TCM) state TPM 1.2 only	0: Disabled & Deactive 1: Enabled & Active 2: No Change 255: Not Supported Example : Abst64.exe /password "1234" /set "Change TPM 1.2 State=1"
Change TPM (TCM) State (For TPM 2.0)	Set TPM(TCM) state TPM 2.0 and later	0: Disabled 1: Enabled 255: Not Supported Example : Abst64.exe /password "1234" /set "Change TPM 2.0 State=1"
Clear TPM (TCM)	Clear TPM(TCM)	1: Clear 255: Not Supported

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Supervisor Password (Status)

Get Supervisor Password status

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

User Password (Status)

Get User Password status

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

Set Supervisor Password

Set Supervisor Password

Example :
Abst64.exe /password 0 /get "User Password
Status"
Byte[1:0]: password
length in byte (2 bytes)
Byte[17:2]: password
context in UTF-8 (16 bytes)

Set User Password

Set User Password

Example : Abst64.exe /password "1234" /set
"Set Supervisor Password=4567"
Byte[1:0]: password
length in byte (2 bytes)
Byte[17:2]: password
context in UTF-8 (16 bytes)

Password on Boot

Get/ Set Password on boot

Example : Abst64.exe /password "1234" /set
"Set User Password=4567"
0: Disabled
1: Enabled
255: Not Supported

Secure Boot

Set/Get Secure Boot status

Example :
Abst64.exe /password 0 /get "Password on
Boot"
Abst64.exe /password "1234" /set "Password
on Boot=1"
0: Disabled
1: Enabled
255: Not Supported
Example :
Abst64.exe /password 0 /get "Secure Boot"
Abst64.exe /password "1234" /set "Secure
Boot=1"

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OPAL Device 0 Password (Status)

Get OPAL Device Password(Status)

0: Disabled
1: Enabled
255: Not Supported

Example :
Abst64.exe /password 0 /get "OPAL Device 0 Password Status"

OPAL Device 1 Password (Status)

Get OPAL Device Password(Status)

0: Disabled
1: Enabled
255: Not Supported

Example :
Abst64.exe /password 0 /get "OPAL Device 1 Password Status"

OPAL Device 2 Password (Status)

Get OPAL Device Password(Status)

0: Disabled
1: Enabled
255: Not Supported

Example :
Abst64.exe /password 0 /get "OPAL Device 2 Password Status"

OPAL Device 3 Password (Status)

Get OPAL Device Password(Status)

0: Disabled
1: Enabled
255: Not Supported

Example :
Abst64.exe /password 0 /get "OPAL Device 3 Password Status"

OPAL Device 4 Password (Status)

Get OPAL Device Password(Status)

0: Disabled
1: Enabled
255: Not Supported

Example :
Abst64.exe /password 0 /get "OPAL Device 4 Password Status"

OPAL Device 5 Password (Status)

Get OPAL Device Password(Status)

0: Disabled
1: Enabled
255: Not Supported

Example :
Abst64.exe /password 0 /get "OPAL Device 5 Password Status"

HDD 0 Password (Status)

Get HDD Password(Status)

0: Disabled
1: Enabled
255: Not Supported

Example :

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		Abst64.exe /password 0 /get "HDD 0 Password Status"
HDD 1 Password (Status)	Get HDD Password(Status)	0: Disabled 1: Enabled 255: Not Supported
		Example : Abst64.exe /password 0 /get "HDD 1 Password Status"
HDD 2 Password (Status)	Get HDD Password(Status)	0: Disabled 1: Enabled 255: Not Supported
		Example : Abst64.exe /password 0 /get "HDD 2 Password Status"
HDD 3 Password (Status)	Get HDD Password(Status)	0: Disabled 1: Enabled 255: Not Supported
		Example : Abst64.exe /password 0 /get "HDD 3 Password Status"
HDD 4 Password (Status)	Get HDD Password(Status)	0: Disabled 1: Enabled 255: Not Supported
		Example : Abst64.exe /password 0 /get "HDD 4 Password Status"
HDD 5 Password (Status)	Get HDD Password(Status)	0: Disabled 1: Enabled 255: Not Supported
		Example : Abst64.exe /password 0 /get "HDD 5 Password Status"

Post Behaviors

Item	Description	Option
F12 Boot Menu	Get/Set Boot Menu setting	0: Disabled 1: Enabled 255: Not Supported

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Function key behavior	Get/Set Function key	Example : Abst64.exe /password 0 /get "F12 Boot Menu"
		Abst64.exe /password "1234" /set "F12 Boot Menu=1" 0: Function Key 1: Special Key 255: Not Supported
D2D Recovery	Set/Get D2D Recovery setting	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
Boot Mode	Get/ Set Boot Mode	Example : Abst64.exe /password 0 /get "D2D Recovery"
		Abst64.exe /password "1234" /set "D2D Recovery=1" 0: Legacy 1: UEFI 255: Not Supported
Boot Priority Order	Get/ Set Boot Priority Order Follow 'Boot Device Table'	Example : Abst64.exe /password 0 /get "Boot Mode"
		Abst64.exe /password "1234" /set "Boot Mode=1" Byte[0]: 1st priority Byte[1]: 2nd priority Byte[2]: 3rd priority ... Byte[16]: 16th priority 255: terminate
POST Animation & Sound	Set/Get D2D POST Animation & Sound	Example : Abst64.exe /password 0 /get "Boot Priority Order"
		Abst64.exe /password "1234" /set "Boot Priority Order=1,2,16,17,255" 0: Disabled 1: Enabled

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255: Not Supported

Example :

Abst64.exe /password 0 /get "POST Animation
& Sound"Abst64.exe /password "1234" /set "POST
Animation & Sound=1"

Boot device table

Value	Meaning
1	1 st 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	2 nd HDD
16	USB Other Devices
17	USB To Go (UEFI boot)
18	IPV6 (UEFI boot)
19	Windows Boot Manager (UEFI boot)
20	Other Bootable Devices

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Date and Time

Item	Description	Option
System Date (MM/DD/YY)	Get/Set System Date	Byte[0]: Date Byte[1]: Month Byte[2]: Year i.g. Byte[2]= 0x10 for 2016 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"
System Time (HH:MM:SS)	Get/Set System Time 24 hour format	Byte[0]: Second (0~59) Byte[1]: Minute (0~59) Byte[2]: Hour (0~23) 0xFFFFF: 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