Diebold Nixdorf

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AMI SCE

User Manual
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Table of Content

1 Revision History 5

2 General Information 6

2.1 Overview 6

2.2 Introduction 6

2.2.1 Starting the tool 6

2.2.2 Applying the tool 6

3 Changing with the script mode 8

3.1 Reading out the current settings 8

3.2 Creating a file with the desired changes 8

3.3 Reading in a created file 12

3.4 Deviations from the default setting 13

4 Updating individual setup options from the command line 14

4.1 Reading out individual setup options in the command line 14

4.2 Changing individual setup options in the command line 15

5 Setting and changing passwords 16

5.1 Creating a password 16

5.2 Changing a password 17

5.3 Deleting a password 17

6 Copying a password to identical platforms 18

6.1 Creating the GUID_list.txt file 18

6.2 Creating the NV_VAR.txt 18

6.3 Copying the password 19

7 Changing the boot order 20

7.1 Reading out the boot order 20

7.2 Changing the boot order 20

7.3 Reading in the changed boot order 22

8 Glossary 23

8.1 Exit Codes 25

9 Table of Figures 26

10 Table of Tables 27

1 Revision History

Date	Remarks
12/2024	Original version

2 General Information

2.1 Overview

With the program AMISCE the setup variables of the NVRAM under the operating system Windows (W10, W11, WinPE) and Linux (DNL1, DNL2) can be changed. AMISCE offers the possibility to change the setup settings, such as they are displayed in the Setup Menu, in script mode.

As an alternative, the RAW mode of AMISCE is also offered.

This can also be used to adjust the setup variables. In contrast to the script mode, the possible changes are not limited to the setup variables. The RAW mode is only used to copy passwords to identical platforms.

All other modifications should be performed in script mode using map strings on command line level because the setup values are stored in various variables of the NVRAM and the positions of the individual values of the setup settings in the variables are not clearly defined. After a BIOS update these could possibly shift. In script mode, the variables are always stored at the correct position in the corresponding NVRAM variables.

AMISCE is executed exclusively in the console or PowerShell. It has no graphical user interface. The input and output are done via the command line.

In the following, both options for changing the setup variables of the NVRAM and copying the password are presented and described. Please make sure to use the command correctly. The commands are only executed in a Windows shell with **administrator rights.**

2.2 Introduction

2.2.1 Starting the tool

The tool is started without an installation.

The utility, created, edited, and saved files need to be stored and operated within the same folder.

Using the tool is only possible with administrator rights. If these are missing, the tool will display an error message.

2.2.2 Applying the tool

Depending on the operating system, the AMISCE program has corresponding names.

Windows 32 bit	`EtaSceWin32.exe`
Windows 64 bit	`EtaSceWin64.exe`
Linux 32 bit	`EtaSceLnx32`
Linux 64 bit	`EtaSceLnx64`

Note
For the given examples, the <AMISCE> has to be replaced by the OS related tool version.

Note
On computers with 32-bit, the AMISCE 32-bit version must be executed.

A variety of different functions of the tool are displayed. The next time you press a key, the associated options are also displayed.

The options and functions are followed by a short description. If necessary, options and their functions can be looked up here.

3 Changing with the script mode

3.1 Reading out the current settings

1. Enter the following command in the command line:
   `<AMISCE> /o /s [filename.txt] /lang en-US /hb /a /b /q`
   → A file is created which contains the current settings of the setup menu.
2. Use the /a, /b options and use the /g and /sp options to suppress duplicate and invalid entries:
   `<AMISCE> /o /s [filename.txt] /lang en-US /hb /sp /g`
   → All required settings of the setup menu are read out.

/o	Output of setup settings
/s	Creates a file with the current setup settings (mandatory)
/a	Additionally, outputs untitled or empty setup settings
/b	Additionally outputs the boot options and boot order
/q	Suppresses the output of the warning messages
/hb	Suppresses the output of the information banner
/sp	Suppresses in combination with /g ineffective and duplicate entries
/g	Suppresses in combination with /sp ineffective and duplicate entries
/ndef	Outputs only the setup options that differ from the system default settings.

Table 1 Options

Note
Filename to be embedded within "" if containing e.g. blank characters.

3.2 Creating a file with the desired changes

1. Create a copy of the created file (in the example all_entries_no_doubles.txt).
2. Adjust the corresponding setup options.
   → The desired setup options are changed.

Note
To change settings, move the * sign in front of the desired value of the option to be changed. The * sign indicates the one and only one allowed active option. Therefore, setting the options must not work with 0 or more than 1 * signs.

Note
- the header with the // lines of the created configuration file needs to be kept
- the HIICrc32 hash value of the configuration file needs to be kept and needs to match the HIICrc32 of the target UEFI firmware the configuration will be used at
- as linebreak characters 0x0D 0x0A and 0x0D are supported
- it is proposed to delete all not needed map-string entries and to keep only the map-string entries intended to be modified
- per map-string one and only one * is allowed
- in case of interfering map-string entries (e.g., boot order) the setting of the * characters need to be consistent (e.g. if setting boot device #1 to #2, then #2 needs to be set to #1)

- script file and utility should be within the same file folder

Example #1:

Modification of “Restore AC Power Loss” from “Power Off” to “Last State”

Before	**After**
[00]Follow AC Power *[01]Power Off [02]Last State	[00]Follow AC Power [01]Power Off *[02]Last State

Before:

```
// Script File Name : all_entries_no_doubles.txt
// Created on 09/10/19 at 14:17:40
// Copyright (c)2018 American Megatrends, Inc.
// AMISCE Utility. Ver 5.05.01.0002
HIICrc32= 9003F0E1
Setup Question = Restore AC Power Loss
Token=5A9 // Do NOT change this line
Offset  =BC1
Width=01
BIOS Default    =[01]Power Off
Options =
[00]Follow AC Power // Move "*" to the desired Option
*[01]Power Off
[02]Last State
```

After:

```
// Script File Name : all_entries_no_doubles.txt
// Created on 09/10/19 at 14:17:40
// Copyright (c)2018 American Megatrends, Inc.
// AMISCE Utility. Ver 5.05.01.0002
HIICrc32= 9003F0E1
Setup Question = Restore AC Power Loss
Token=5A9 // Do NOT change this line
Offset  =BC1
Width=01
BIOS Default    =[01]Power Off
Options =
[00]Follow AC Power // Move "*" to the desired Option
[01]Power Off
*[02]Last State
```

Example #2:

Modification of “Boot Option” order” to switch boot devices #1 and #5

Before	**After**
Boot Option #1=00 Boot Option #5=05	Boot Option #1=05 Boot Option #5=00

Before:

```
// Script File Name : new.txt
// Created on 08/05/24 at 10:08:10
// AMISCE Utility. Ver 5.05.01.0002
// Copyright (c) 2021 AMI. All rights reserved.

HIICrc32= 1678A926

Setup Question  = Boot Option #1
Map String  = Boot Option #1
Help String = Sets the system boot order
Token   =1080   // Do NOT change this line
Offset  =134B
Width   =02
BIOS Default    =[00]USB Key
Options =*[00]USB Key   // Move "*" to the desired Option
         [01]USB Hard Disk
         [02]USB CD/DVD
         [04]Hard Disk:P1[2]:[Windows Boot Manager]SanDisk SD9SN8W128G
         [05]Network:N1[0]-[UEFI]PXE IP4 Intel(R) Ethernet Connection (6) I219-LM
         [03]USB Lan:N2[0]-[UEFI]PXE IP4 Realtek USB Ethernet Controller
         [06]Disabled

Setup Question  = Boot Option #5
Map String  = Boot Option #5
Help String = Sets the system boot order
Token   =1084   // Do NOT change this line
Offset  =1353
Width   =02
BIOS Default    =[05]Network:N1[0]-[UEFI]PXE IP4 Intel(R) Ethernet Connection (6)
I219-LM
Options =[00]USB Key    // Move "*" to the desired Option
         [01]USB Hard Disk
         [02]USB CD/DVD
         [04]Hard Disk:P1[2]:[Windows Boot Manager]SanDisk SD9SN8W128G
         *[05]Network:N1[0]-[UEFI]PXE IP4 Intel(R) Ethernet Connection (6) I219-LM
         [03]USB Lan:N2[0]-[UEFI]PXE IP4 Realtek USB Ethernet Controller
         [06]Disabled
```

After:

```
// Script File Name : new.txt
// Created on 08/05/24 at 10:08:10
// AMISCE Utility. Ver 5.05.01.0002
// Copyright (c) 2021 AMI. All rights reserved.

HIICrc32= 1678A926

Setup Question  = Boot Option #1
Map String  = Boot Option #1
Help String = Sets the system boot order
Token   =1080   // Do NOT change this line
Offset  =134B
Width   =02
BIOS Default    =[00]USB Key
Options =[00]USB Key    // Move "*" to the desired Option
         [01]USB Hard Disk
         [02]USB CD/DVD
         [04]Hard Disk:P1[2]:[Windows Boot Manager]SanDisk SD9SN8W128G
         *[05]Network:N1[0]-[UEFI]PXE IP4 Intel(R) Ethernet Connection (6) I219-LM
         [03]USB Lan:N2[0]-[UEFI]PXE IP4 Realtek USB Ethernet Controller
         [06]Disabled

Setup Question  = Boot Option #5
Map String  = Boot Option #5
Help String = Sets the system boot order
Token   =1084   // Do NOT change this line
Offset  =1353
Width   =02
BIOS Default    =[05]Network:N1[0]-[UEFI]PXE IP4 Intel(R) Ethernet Connection (6)
I219-LM
Options =*[00]USB Key   // Move "*" to the desired Option
         [01]USB Hard Disk
         [02]USB CD/DVD
         [04]Hard Disk:P1[2]:[Windows Boot Manager]SanDisk SD9SN8W128G
         [05]Network:N1[0]-[UEFI]PXE IP4 Intel(R) Ethernet Connection (6) I219-LM
         [03]USB Lan:N2[0]-[UEFI]PXE IP4 Realtek USB Ethernet Controller
         [06]Disabled
```

3.3 Reading in a created file

1. Execute the following command:
   `<AMISCE> /i /lang en-US /s [filename.txt] [/cpwd NULL|password] /hb /q`
   → The created file is read in.
   Example:
   `<AMISCE> /i /hb /b /q /s all_entries.txt`
   `<AMISCE> /i /lang en-US /s [filename.txt] /hb /q`
2. Perform a restart.
   → The already adopted amendments take effect.

/i	This option initiates the input of the created file.
/s	Specifies the file to be read
/a	Additionally, outputs untitled or empty setup settings
/b	Additionally outputs the boot options and boot order
/q	Suppresses the output of the warning messages.
/hb	Suppresses the output of the information banner
/ndef	Outputs only the setup options that differ from the system default settings.
/cpwd	Transfers the password UNICODE formatted.
/cpwds	Passes the password SCAN CODE formatted
/cpwde	Transfers the password EFI KEY CODE formatted
/shutdown	Shut down the system after command execution
/reboot	Shuts down the system after command execution and restarts it

Table 2 Options

If a BIOS setup administrator password was allocated, the created file is only read in with this password. The BIOS setup administrator password is not equal to the operating system administrator password.

A password is specified directly without quotation marks using the /cpwd option:

`<AMISCE> /i /hb /b /q /s all_entries.txt /cpwd Test123!`

Note

- Filename to be embedded within "" if containing e.g. blank characters
- the HIICrc32 hash value of the configuration file needs to be kept and needs to match the HIICrc32 of the target UEFI firmware the configuration will be used at
- The UEFI admin password needs to be provided if active
- For A1150 with BIOS 01/35 (or later) it is mandatory to always provide a password (either NULL or BIOS Admin password).
- It is important to note that "NULL" is entered explicitly with capital letters.

3.4 Deviations from the default setting

After changes have been made to the setup settings, it is possible to output the differences compared to the default setting to a separate file.

1. Use the following command:
   `<AMISCE> /o /g /sp /ndef /s [filename.txt]`
   → The created file indicates the differences.

4 Updating individual setup options from the command line

To address a setup option in the command line, the map string is required because it allows the identification of the desired setting.

Note

- Command line setup option modification supported for map-string with unique token only
- If there are several map-string with identical name but unique token each, the option modification must be done by the file read/write operation
- The existence of multiple tokens for a map-string is reported by
  Multiple setup questions found with map string(..)
- Command line parameter format
  - String: embedded into "" (typically e.g., map-string)
  - Decimal: embedded into "<>" (e.g., "<01>")
  - Hexadecimal: two characters with leading 0x (e.g., 0x01)
- The UEFI admin password needs to be provided if active
- For A1150 with BIOS 01/35 (or later) it is mandatory to always provide a password (either NULL or BIOS Admin password).
- It is important to note that "NULL" is entered explicitly with capital letters.

4.1 Reading out individual setup options in the command line

Usually, the map string has the same name as the setup setting.

1. Execute the following command:
   `<AMISCE> /o /lang en-US /ms "[Mapstring]"`
   → The desired setup option is displayed in the console.
   Example:

```
Setup Question = Wake on LAN/PCIe Map String = Wake on LAN/PCIe
<AMISCE> /o /lang en-US /ms “Wake on LAN/PCIe”
Edition:
Options =
*[00]Disabled // Move "*" to the desired Option
[01]S3
[02]S3/S4/S5
```

Note
The * symbol indicates the currently applied option.

If a map string differs from the name of the setup setting, it is possible to output it to a separate file.

2. Execute the following command:
   `<AMISCE> /o /lang en-US /g /sp /s [filename.txt]`

4.2 Changing individual setup options in the command line

1. Apply the map string:
   `<AMISCE> /i /lang en-US /ms "[Map-String]" /qv [*-Position]`
   → A setup option on the command line is changed.
   Example:
   `<AMISCE> /i /lang en-US /ms "Wake on LAN/PCIe" /qv 00`

   Note
   The /qv option handles moving the * symbol to the desired position of the setup option.

5 Setting and changing passwords

AMISCE also supports the creation and modification of an administrator and/or user password or boot menu password.

Note
The User Password in R1/R2 BIOS setup menu is called “Boot Menu Password”.

Depending on password (PW) use – which are set and used at system boot - there is an impact on boot access and UEFI menu access.

Admin PW	Boot Menu PW	PW used at boot	Boot Access	UEFI Access
no	no	**None**	without PW	unlimited
yes	no	**Admin**	without PW	unlimited
yes	yes	**Admin**	with password	unlimited
yes	yes	**Boot Menu**	with password	limited

Setting and changing passwords

Note

- The UEFI admin password needs to be provided if active
- For A1150 with BIOS 01/35 (or later) it is mandatory to always provide a password (either NULL or BIOS Admin password).
- It is important to note that "NULL" is entered explicitly with capital letters.

IMPORTANT!

A new password must fulfill certain criteria in order to be set.
A difference is made between mandatory and variable criteria.

Mandatory criteria:

Mandatory criteria are those, which must be available in every password.
The new password must have between 8 and 20 characters and at least one letter.

Variable criteria:

In contrast to the mandatory ones, not all of the variable criteria have to be contained in a new password.
These are capital letters, special characters and numbers.
At least two of these criteria must be fulfilled to set a new password.

If a space is selected as a special character, the password must be written in quotation marks during the inquiry.
This applies when creating a password as well as when setting a password.

Example:

without space:

```
<AMISCE> /hb /cpwd NULL /apwd Test123!
```

with space:

```
<AMISCE> /hb /cpwd NULL /apwd „Test 123“
```

5.1 Creating a password

1. Use the /cpwd option (see "Reading in a created file").
   → The password is transferred.
2. Use the /apwd option
   → A new administrator password is set.

3. Use the /upwd option
   → A user password is created and/or set.
   Both options must be used to change and set the password.
4. Use the input "NULL" after the /cpwd option.

5.2 Changing a password

1. Use the same command as described in "Creating a password". Note that the /cpwd option now requires the created password.
   → The password is changed.
   Example:
   without space:
   `<AMISCE> /hb /cpwd Test123! /apwd Test!321`
   with space:
   `<AMISCE> /hb /cpwd “Test 123” /apwd Test!321`

5.3 Deleting a password

It is possible to reset a password by entering the character string "NULL".

1. Specify the character string "NULL". Example:
   `<AMISCE> /hb /cpwd Test123! /apwd NULL`
   → The password is deleted.

6 Copying a password to identical platforms

Note
To allow copying of passwords to other platforms, the RAW mode must be used, because the script mode does not allow access to the necessary variables.

The following steps introduce the process of using RAW mode and copying passwords.

Three steps are needed to implement this.

1. Creating the GUID_list.txt file
2. Creating the NV_VAR.txt
3. Copying the password

The first two steps both serve to create the NV_VAR.txt file. This is needed to copy the password to another system. The names of the respective files chosen here are exemplary and were chosen according to function and content.

6.1 Creating the GUID_list.txt file

This file contains the variables of the NVRAM. Among other things the password to be copied.

1. Execute the following command:
   `<AMISCE> /o /c /l GUID_list.txt /n NVRAM.db /h Hii.db`
   → The password is copied to another, identical platform.
   → Three files are created, which will be needed later.
2. Reduce the contents of the GUID_list.txt file to the "AMITSESetup" variable.
3. Save afterwards.
   → Afterwards the file will be look like this:

```
[VARIABLE]
VARIABLE_NAME = AMITSESetup
VARIABLE_GUID = c811fa38-42c8-4579-a9bb-60e94eddfb346
```

6.2 Creating the NV_VAR.txt

This contains the variables listed in GUID_list.txt.
These have been reduced to the password in step 6.1 "Creating the GUID_list.txt file".

1. Execute the following command:
   `<AMISCE> /o /h Hii.db /l GUID_list.txt /n NV_VAR.txt`
   → The file NV_VAR.txt is created, which contains the encrypted password.

6.3 Copying the password

The created file NV_VAR.txt and GUID_list.txt were copied to an identical platform.

1. Execute the following command:
   `<AMISCE> /i /l GUID_list.txt /n NV_VAR.txt /f`
   → The password is copied.

Note

Important!

If an administrator password is set on the other platform, it must be transferred using the `/cpwd` option to execute the command.

Afterwards the password is overwritten by the execution.

7 Changing the boot order

AMISCE also supports changing the boot order. But only the boot classes can be changed. Replacing boot media within a boot class, as interactively in the BIOS/ UEFI setup, is not possible.

Note
Changing the boot device order is possible for device classes only. It is not possible to switch boot device order in-between e.g. HDD, SSD or USB sticks.
Depending on motherboard, `Boot Priority` and `Boot Option` are equivalent.

7.1 Reading out the boot order

1. Use the function described in chapter 3.1 "Reading out the current settings":
   `<AMISCE> /o /hb /a /b /q /s [filename.txt]`
   → The current boot sequence is read out.

It is important to specify the /b parameter to find the current boot order in the output file filename.txt. All parameters as described in "Reading out the current settings" apply.

Note
It is recommended to use the `/sp /g` options to suppress all duplicate and invalid entries.

7.2 Changing the boot order

The created file contains all setup settings (except the duplicate and ineffective ones if the `/sp` and `/g` options were used).

→ To manipulate the boot, order the entries of at least two Boot Priority # entries need to be modified. The rest of the setup options are not needed and should be deleted.

1. Place the * character in front of the desired option and remove it from former location.
2. Make sure that in total all boot classes are set only once.
   → The boot priorities have been changed.

Note
Important!
The options should not be marked twice by a * symbol in case of multiple priorities.
The exchange is done by setting the * symbol to the respective priorities.
There are always at least two boot priorities that must be edited or switched so that the boot sequence can be changed.

It is to ensure, that after modification, each `Boot Priority #` refers to exactly one * symbol.
In addition, each `Boot Priority #` has to have the * symbol at a different parameter (`[00]` to `[05]`).
Changing multiple parameters is possible by applying the mentioned rules.

Example: The following example explains how to change the boot order - for the first boot device (Boot Priority #1) - between HDD and USB KEY (before at Boot Priority #6).

Before	After
Boot Priority #1 *[00]UEFI HDD [01]UEFI CDROM [02]UEFI LAN [03]UEFI USB HDD [04]UEFI USB CDROM [05]UEFI USB KEY[FF]Disabled	Boot Priority #1 [00]UEFI HDD [01]UEFI CDROM [02]UEFI LAN [03]UEFI USB HDD [04]UEFI USB CDROM *[05]UEFI USB KEY[FF]Disabled
Boot Priority #2 [00]UEFI HDD *[01]UEFI CDROM [02]UEFI LAN [03]UEFI USB HDD [04]UEFI USB CDROM [05]UEFI USB KEY [FF]Disabled	Boot Priority #2 [00]UEFI HDD *[01]UEFI CDROM [02]UEFI LAN [03]UEFI USB HDD [04]UEFI USB CDROM [05]UEFI USB KEY [FF]Disabled
Boot Priority #3 [00]UEFI HDD [01]UEFI CDROM *[02]UEFI LAN [03]UEFI USB HDD [04]UEFI USB CDROM [05]UEFI USB KEY [FF]Disabled	Boot Priority #3 [00]UEFI HDD [01]UEFI CDROM *[02]UEFI LAN [03]UEFI USB HDD [04]UEFI USB CDROM [05]UEFI USB KEY [FF]Disabled
Boot Priority #4 [00]UEFI HDD [01]UEFI CDROM [02]UEFI LAN *[03]UEFI USB HDD [04]UEFI USB CDROM [05]UEFI USB KEY [FF]Disabled	Boot Priority #4 [00]UEFI HDD [01]UEFI CDROM [02]UEFI LAN *[03]UEFI USB HDD [04]UEFI USB CDROM [05]UEFI USB KEY [FF]Disabled
Boot Priority #5 [00]UEFI HDD [01]UEFI CDROM [02]UEFI LAN [03]UEFI USB HDD *[04]UEFI USB CDROM [05]UEFI USB KEY [FF]Disabled	Boot Priority #5 [00]UEFI HDD [01]UEFI CDROM [02]UEFI LAN [03]UEFI USB HDD *[04]UEFI USB CDROM [05]UEFI USB KEY [FF]Disabled
Boot Priority #6 [00]UEFI HDD [01]UEFI CDROM	Boot Priority #6 *[00]UEFI HDD [01]UEFI CDROM

Before	After
[02]UEFI LAN	[02]UEFI LAN
[03]UEFI USB HDD	[03]UEFI USB HDD
[04]UEFI USB CDROM	[04]UEFI USB CDROM
*[05]UEFI USB KEY	[05]UEFI USB KEY
[FF]Disabled	[FF]Disabled

7.3 Reading in the changed boot order

1. Use the following command:
   `<AMISCE> /i /hb /b /q /s [filename.txt]`
   → The read in of the edited boot order is done.

It is important to specify the /b parameter to find the changed boot order in the file specified with /s. All options as described in "Reading in a created file" apply.

8 Glossary

	Definition
Reading out the current settings	
/o	Output of setup settings
/s	Creates a file with the current setup settings (mandatory)
/sd	Creates a file with duplicate, invalid setup settings
/a	Additionally, outputs untitled or empty setup settings
/b	Additionally outputs the boot options and boot order
/q	Suppresses the output of the warning messages.
/hb	Suppresses the output of the information banner
/sp	Suppresses in combination with /g ineffective and duplicate entries
/g	Suppresses in combination with /sp ineffective and duplicate entries
/ndef	Outputs only the setup options that differ from the system default settings
Reading in a created file	
/i	This option initiates the input of the created file
/s	Specifies the file to be read
/sd	Creates a file with duplicate, invalid setup settings
/a	Additionally, outputs untitled or empty setup settings
/b	Additionally outputs the boot options and boot order
/q	Suppresses the output of the warning messages
/hb	Suppresses the output of the information banner
/ndef	Outputs only the setup options that differ from the system default settings
/cpwd	Transfers the password UNICODE formatted
/shutdown	Shut down the system after command execution
/reboot	Shuts down the system after command execution and restarts it
Deviations from the default setting	
/o	Output of setup settings
/hb	Suppresses the output of the information banner
/a	Additionally, outputs untitled or empty setup settings
/b	Additionally outputs the boot options and boot order
/q	Suppresses the output of the warning messages
/i	This option initiates the input of a created file
/s	Specifies the file to be read
/ndef	Outputs only the setup options that differ from the system default settings
Updating individual setup settings from the command line	
/i	Input of setup settings
/ms	Specification of the map string for the respective setup setting
/lang en-US	Extends the setup options with the Map String field and specifies this in English. Mandatory for the specific search for a setup setting using the MAPString in English.

	Definition
/o	Output of setup settings
/qv	Accepts the moving of the * symbol to the desired position of the setup option
Setting and changing passwords	
/cpwd	Transfers the password UNICODE formatted
/apwd	Setting a new admin password
/upwd	Setting a new user password
/hb	Suppresses the output of the warning messages
Copying a password to identical platforms	
/o	Output of setup settings
/l	Creates a file in which the variables are listed
/c	Only applicable in combination with /l Creates a file in which additional information be assigned to the variables from the NVRAM
/h	Creates or specifies a HII dump file
/n	Creates or specifies a NVRAM dump file
/i	This option initiates the input of a created file
/f	Enables the password to be changed to identical platforms
Changing the boot order	
/o	Output of setup settings
/hb	Suppresses the output of the information banner
/a	Additionally, outputs untitled or empty setup settings
/b	Additionally outputs the boot options and boot order
/q	Suppresses the output of the warning messages.
/i	This option initiates the input of a created file
/s	Specifies the file to be read
All options	
/o	Output of setup settings
/s	Specifies the file to be read or written (mandatory, if script file is used)
/sd	Creates a file with duplicate, invalid setup settings
/a	Additionally, outputs untitled or empty setup settings
/b	Additionally, outputs the boot options and boot order
/q	Suppresses the output of the warning messages
/hb	Suppresses the output of the information banner
/sp	Suppresses in combination with /g ineffective and duplicate entries
/g	Suppresses in combination with /sp ineffective and duplicate entries
/ndef	Outputs only the setup options that differ from the system default settings.
/i	This option initiates the input of the created file or input of setup setting
/cpwd	Transfers the password UNICODE formatted.
/shutdown	Shut down the system after command execution

	Definition
/reboot	Shuts down the system after command execution and restarts it
/ms	Specification of the map string for the respective setup setting
/lang en-US	Extends the setup options with the Map String field and specifies this in English. Mandatory for the specific search for a setup setting using the MAPString in English.
/qv	Accepts the moving of the * symbol to the desired position of the setup option
/cpwd	Transfers the password UNICODE formatted
/apwd	Setting a new admin password
/upwd	Setting a new user password
/l	Creates a file in which the variables are listed
/c	Only applicable in combination with /l Creates a file in which additional information be assigned to the variables from the NVRAM
/h	Creates or specifies a HII dump file
/n	Creates or specifies a NVRAM dump file
/f	Enables the password to be changed to identical platforms

Table 3 Options

8.1 Exit Codes

Exit Code	Description
0x00	Operation completed successfully.
0x0D	Invalid script file or command line parameter.
0x17	Script file CRC check against current BIOS failed.
0x57	Incorrect command line usage.
0x82	Invalid password.
0x86	Admin password does not exist.
0x8F	Password retry count exceeded.
0x9A	Password does not match admin password.
0x0E	Error: Kernel source files cannot be found.
0x0F	Error: Unable to make kernel driver
0x10	Error: Unable to load driver.
0x11	Error: Unable to unload driver.
0x20	Error: Unable to initialize memory manager.
0x22	Error: Unable to allocate required memory.
0x26	Error: Unable to map physical memory.
0x61	Error: A program instance is already running.
0x71	Error: Unable to generate driver automatically when Secure Boot is enabled.

9 Table of Figures

No table of figures entries found.

10 Table of Tables

Table 1 Options 8

Table 2 Options 12

Table 3 Options 25

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