



## Aptio AMISCE 5.03 Release Notes

# Aptio AMISCE Release Notes

Document Revision 1.19

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## Document Change History

Date	Revision	Description
2010-09-09	1.00	Initial draft
2010-09-15	1.01	Initial release
2010-09-24	1.02	Update for Build 1020
2011-03-18	1.03	Update for Build 1027
2011-05-16	1.04	Update for Build 2.01.1029
2011-07-21	1.05	Updatd the document standards.
2012-04-18	1.06	Release 2.01.1030
2013-03-01	1.07	Updated for 2.02.1039BETA release
2013-10-29	1.08	Updated for 5.00.1050ALPHA release
2014-05-16	1.09	Updated for 5.00.1059ALPHA release
2014-08-06	1.10	Updated for 5.00.1068 release
2014-10-09	1.11	Updated feature list with new features for v5.01 Updated version history for v5.01.1073
2016-02-17	1.12	Updated for 5.02.1092 release
2016-06-09	1.13	Updated for 5.02.1097 release
2016-12-08	1.14	Updated for 5.03.1101 release
2016-12-20	1.15	Updated for 5.03.1102 release
2017-02-07	1.16	Updated for 5.03.1108 release
2017-05-29	1.17	Updated for 5.03.1111 release
2018-02-07	1.18	Updated copyright information
2018-06-07	1.19	Updated for 5.03.1115 release

## Release

- V5.03.1115 07-Jun-2018

## Deliverables

- SceEfi.efi
- SceEfi64.efi
- AMI\_Aptio\_5.x\_SCE\_User\_Guide\_NDA.pdf
- AMI\_Aptio\_SCE\_Release\_Notes\_NDA.pdf

## Component Versions

Below is a list of the version numbers of the components that make up this release.

- |   |              |                   |
|---|--------------|-------------------|
| • | SceEfi.efi   | Version 5.03.1115 |
| • | SceEfi64.efi | Version 5.03.1115 |

## Features

The following features are supported:

- Generates Setup Question script with relevant information for modification by user.
- NVRAM values can be updated based on modifications to Setup Question script file.
- Ability to modify the defaults for the Setup Question controls.
- Verbose mode for detailed generation of the script file.
- Reads NVRAM variables and HII database from BIOS at run time to create files that can be used as input to a setup emulation program. The NVRAM script file may be edited as text. Implemented for Windows.
- Loads the NVRAM script file created above and updates NVRAM.
- Optional user password.
- Command line operation.
- Supports mapping language.
- Supports expression evaluation.
- Supports blocking of migration.
- Unlocks protected variable update with administrator password.
- Support to change user/admin password
- Supports suppression of duplicate questions.
- Support to export only questions whose value is different from default.
- Aptio V BIOS Identification.

- Get SMI port from ACPI table
- Support to change question values from command line.
- Support for PLDM export and import.
- Support for efivarstore type variables.
- Support for negative numbers as values for controls.
- Support to hide banner.
- Support to read single question value from command line.
- Support to identify suppressed and grayedout forms and controls in script file.
- Removed dependancy of SMIVariable module.
- SMM communication support.
- Support to indicate system modification by AMISCE.
- Support to reboot and shutdown after system modification.

## Supported Operating Systems

The AMISCE is supported by the following operating systems:

- Both 32 and 64 bit EFI Shell.

## Compatibility

- Requires "SMIVariable" eModule support to be provided by EFI BIOS. The module can be found at:  
Aptio V: `$/AptioV/Source/Modules/SMIVariable` labeled 5.004\_SMIVariable\_00 or later  
Aptio 4: `$/Alaska/BIN/Modules/SMIVariable` labeled 4.6.3\_SMIVariable\_1.2 or later.
- For update of default values to be effective, the TSE module must be labeled  
4.6.2\_TSE\_2\_02\_1205\_BETA or later (for Aptio4) and 5.004\_AmiTse\_13 or later (for AptioV).
- The password feature requires the OFBD driver module.
- Requires 'AmiSetupNvLock' BIOS module for NVRAM variable update protection. The module can be found at: Aptio V: `$/AptioV/Source/Modules/AMISetupNvLock` labeled 5.004\_AmiSetupNvLock\_1\_05 or later  
Aptio 4: `$/Alaska/SOURCE/Modules/AMISetupNvLock` labeled 4.6.2\_AmiSetupNvLock\_1\_02 or later
- If present, TSE tokens RT\_ACCESS\_SUPPORT\_IN\_HPKTOOL and RT\_ACCESS\_FOR\_EFIVARSTORE must be enabled.
- Bios version check requires:  
ACPI label 'ACPI\_06' or later for Aptio V.  
ACPI label '4.6.5.0\_ACPI\_48' or later for Aptio 4.

- For update of question values from command line and PLDM support , the Aptio firmware should have the mapping language support enabled. The default mapping language is x-AML. To enable the mapping language, add the language code to RFC\_LANGUAGES token.

## Limitations

- Minimum / maximum values of a numeric control are not exported to the script file.
- Questions with the same help name are considered to be ambiguous on UEFI 2.0 BIOS.
- During usage of reboot/shutdown switches, System will reboot or shutdown even if it is able to import a single system setting successfully. Due to this user may not be able to see all the warnings. Application log redirection to a file also won't work in this case.
- PLDM files are exported and imported from root directory and not in current directory.

## Version History

### SceEfi.efi

Ver 5.03.1115                      06/07/2018

#### New Features

- SCE completed flag. (EIP – 404656)
- Need to Add Reboot/Shutdown switch in SCE. (EIP – 408091)

#### Issues Fixed

- With latest TSE test driver, SCE Advanced mode is not working. (EIP - 407744)

Ver 5.03.1111                      29/05/2017

#### Issues Fixed

- Grayout and Suppress setup items in Runtime Error Logging page display abnormally in SCE dumped file. (EIP – 324479)
- The limitation of SCEEFI generates files in root directory instead of the current working directory when path is not mentioned and executed from UEFI: Built-in-EFI Shell. (EIP – 332188)

Ver 5.03.1108                      02/07/2017

#### New Features

- SMM communication algorithm needs to be modified in SCE (EIP - 309194)

Ver 5.03.1101

12/08/2016

### **New Features**

- Negative number input support for SCE utility. (EIP - 256676)
- Option to hide banner in SCE. (EIP - 291217)
- Support to read single question from command line. (EIP - 286488)
- SCE needs to handle default mapping language x-AMI and x-UEFI-AMI the same. (EIP - 278203)
- PLDM: Support to specify mapping language. (EIP - 278991)
- Introduce a new switch with SCE tool, which can output grayout and suppress items in one dumped file. (EIP - 288280)
- Suppressed form's all control should be in commented out format with /ce switch. (EIP - 292718)
- SCE needs to avoid using HiiDb NVRAMVariable , get the data using HII protocols. (EIP - 281375)

### **Issues Fixed**

- SCELN-Modify setup item fail if setup item string include "@". (EIP - 260987)
- Some item will not be filter out properly when using SCE /g command in shell. (EIP - 283721)

Ver 5.02.1097

06/09/2016

### **New Features**

- Provide efivarstore type variable support in AMISCE (EIP-264084)
- Improve expression evaluation logic (in OS version) to evaluate nested expressions even if parent expression fails to evaluate. (EIP 253128)

Ver 5.02.1092

02/17/2016

### **New Features**

- Change question value from command line (EIP: 234918)
- Support for PLDM export and import (EIP: 190945, 241871, 243898)
- Function request for disabling boot options via SCE tool. (EIP 235175)

### **Issues Fixed**

- Typographical error (EIP 236384)
- Windows and Linux version SCE tool still dump hidden options when using parameter /v /g /sp (EIP 225595)
- Warning during import is not suppressed by the /q flag. (EIP 246565)
- Tool SCELN-64 cannot dump successful with command /g /sp in UEFI RHEL 7.1 OS. (EIP 223189)

Ver 5.01.1073 10/09/2014

### **New Features**

- Enhanced export mode: Comment out duplicate questions. (EIP 169273)
- Get the SMI port number from ACPI table and use that in SCE (EIP 132634)
- Migration mode: Only export questions whose value is different from the default (EIP 168203)
- Change user/admin password for BIOS setup (EIP 171710)
- Provision to specify mapping language (EIP 147195)

Ver 5.00.1068 08/06/2014

### **Issues Fixed**

- AMISCE cuts off one-of option value when data width greater than 2 bytes. Also current setting '\*' is missing. (EIP 178800)

Ver 5.00.1059 05/16/2014

### **New Features**

- Admin password to unlock variable access. (EIP 168125)
- Suppress output of questions with blank or empty names. If /lang present suppress output of questions without x-AMI string (EIP 154739)
- Block SCE execution on non Aptio V platforms' (EIP 121820)

### **Issues Fixed**

- AMISCE gives syntax error during script file import on Sugarbay platform. (EIP 167123)

Ver 5.00.1050 10/29/2013

### **New Features**

- Add command option to SCE to control export/import of boot order controls – EIP 118512
- Substitute variable inside StdDefaults when a variable for a formset is missing
- Support management of migration feature including blocking migration via command line switch – EIP 125433
- SCE work with mapping language – EIP 126273
- Add support for question evaluation to SCE - EIP 125431 – Support for Suppressing Forms added.
- Add support for question evaluation to SCE - EIP 125431 – Support for Suppressing Submenu items in Forms added.



- Add support for question evaluation to SCE - EIP 125431 – Support for /sp command for suppress if opcode and /g command for grayout.
- Expression Evaluation support for AMISCE Efi – EIP 132790.

### Issues Fixed

- SCE question mismatch when prompt has trailing space – EIP 118838

Ver 2.02.1039

02/21/2013

### New Features

- Output subtitles as comments to SCE scripts – EIP 112604
- APTIOV support
- Improve handling of duplicated or unmatched questions - EIP92631
- Add comment to checkbox value indicating enabled/disabled values – EIP103690

### Issues Fixed

- Output language code in script instead of trying to render full language name – EIP 114981
- Some versions of SCE lose the % character in question names – EIP 113274
- AMISCE does not properly handle 32 and 64 bit numeric control nor can it properly limit check signed numeric controls. – EIP 100678
- SCE boot option question overflows buffer and uses wrong case for hex digits when reading Bootnnnn variable – EIP 106102
- SCE RAW Export command generates invalid NVRAM file - EIP103911

Ver 2.01.1030

04/18/2012

### New Features

OFBD module password checking.

- Implement string controls.
- Add checks for invalid options. Previously invalid values were accepted.
- Allow raw variable import to change the size of a variable.
- AMISCE to work with security update to SMIVariable .

### Issues Fixed

- Prevent corruption of LegacyBootOrder variable.
- Fix failure to report success on raw export when final variable is read-only.
- SCE does not show all options of oneof control if it has embedded suppressif statements (UEFI 2.1).

- Fix failure to get strings when system language is not English.
- Fix controls with extreme number of options cause SCE to not list all options.
- Fix language control in exported script.
- Fix file open failure with assert message from open.c.

Ver 2.00.1027

03/18/2011

### **Issues Fixed**

- Control with extreme number of options could cause buffer overflow.
- SCE would not run properly under DUET bootable EFI shell.
- Fixes the inability to read scripts with DOS line terminators.
- This caused all the lines of the script to be ignored after editing with DOS edit.

### **New Features**

- Quiet mode (/q) added to suppress warning messages.

Ver 2.00.1010

9/09/2010

- Initial test version

## **SceEfi64.efi**

Ver 5.01.1073

10/08/2014

### **New Features**

- Enhanced export mode: Comment out duplicate questions. (EIP 169273)
- Get the SMI port number from ACPI table and use that in SCE (EIP 132634)
- Migration mode: Only export questions whose value is different from the default (EIP 168203)
- Change user/admin password for BIOS setup (EIP 171710)

Ver 2.02.1039

02/21/2013

### **New Features**

- Output subtitles as comments to SCE scripts – EIP 112604
- APTIOV support
- Improve handling of duplicated or unmatched questions - EIP92631

- Add comment to checkbox value indicating enabled/disabled values – EIP103690

### Issues Fixed

- Output language code in script instead of trying to render full language name – EIP 114981
- Some versions of SCE lose the % character in question names – EIP 113274
- AMISCE does not properly handle 32 and 64 bit numeric control nor can it properly limit check signed numeric controls. – EIP 100678
- SCE boot option question overflows buffer and uses wrong case for hex digits when reading Bootnnnn variable – EIP 106102
- SCE RAW Export command generates invalid NVRAM file - EIP103911
- Output language code in script instead of trying to render full language name – EIP 114981
- BIOS Strings being updated in SUBTITLES but not TITLES in SCE – EIP 114822 , EIP 114790
- SCE exported language control shows English twice. Fails to output '\*' for selected chinese dialect. – EIP 114785

Ver 2.01.1030

04/18/2012

### New Features

- OFBD module password checking.
- Implement string controls.
- Add checks for invalid options. Previously invalid values were accepted.
- Allow raw variable import to change the size of a variable.
- AMISCE to work with security update to SMIVariable .

### Issues Fixed

- Prevent corruption of LegacyBootOrder variable.
- Fix failure to report success on raw export when final variable is read-only.
- SCE does not show all options of oneof control if it has embedded suppressif statements (UEFI 2.1).
- Fix failure to get strings when system language is not English.
- Fix controls with extreme number of options cause SCE to not list all options.
- Fix language control in exported script.
- Fix file open failure with assert message from open.c.

Ver 2.00.1027

03/18/2011

### New Features

- Quiet mode (/q) added to suppress warning messages.

Ver 2.00.1009

9/09/2010

- Initial test version

## Notes:

AMISCE expects scripts in the format as specified by the specification. White space and Empty Lines at the start of the script is not allowed.