



## Aptio AMISCE 5.03 Release Notes

# Aptio AMISCE Release Notes (Windows Version)

Document Revision 1.23

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*Document Owner: Utility Group*

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## Document Change History

Date	Revision	Description
2009-10-07	1.00	Initial draft
2009-10-23	1.01	Update Requirement and Add Notes section
2010-08-26	1.04	Added UEFI 2.1 support, support for SMIVariable modifications for extracting database in pieces.
2010-11-03	1.05	Updated for release 2.00.1020
2011-07-26	1.06	Updated according to document standards.
2011-04-10	1.07	Release 2.01.1030
2012-10-15	1.08	Output a comment for checkbox controls. Fix proble with checksum output on raw script
2013-08-05	1.09	Updated for release 2.02.1044
2013-09-26	1.10	Updated for release 2.03.1047
2013-10-11	1.11	Updated for release 5.00.1048
2014-01-02	1.12	Updated supported OS list
2014-05-16	1.13	Updated for release 5.00.1059
2014-08-06	1.14	Updated for release 5.00.1068
2014-10-01	1.15	Updated feature list with new features for v5.01 Updated version history for v5.01.1073
2016-02-08	1.16	Updated for release 5.02.1092
2016-06-06	1.17	Updated for release 5.02.1097
2016-12-26	1.18	Updated for release 5.03.1102
2017-02-06	1.19	Updated for release 5.03.1107
2017-04-04	1.20	Updated for release 5.03.1109
2017-05-29	1.21	Updated for release 5.03.1111
2018-02-07	1.22	Updated copyright information
2018-06-07	1.23	Updated for release 5.03.1115

## Release

- V5.03.1115 07 Jun 2018

## Deliverables

- SCEWIN.EXE
- SCEWIN\_64.EXE
- Amifldr32.sys
- Amifldr64.sys
- AMI\_Aptio\_5.x\_SCE\_User\_Guide\_NDA.pdf
- AMI\_Aptio\_SCE\_Release\_Notes\_NDA.pdf

## 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.
- Command line operation.
- Optional user password check
- APTIOV support
- Supports mapping language.
- Provision to specify 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.
- 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:

- Microsoft® Windows® XP
- Microsoft® Windows® 2003
- Microsoft® Windows® Vista
- Microsoft® Windows® 7
- Microsoft® Windows® PE
- Microsoft® Windows® Server 2012 R2
- Microsoft® Windows® 8
- Microsoft® Windows® 8.1
- Microsoft® Windows® 10
- Microsoft® Windows® Server 2016

Note: Starting from Microsoft Windows® 7 in all the windows Operating System the Application requires Administrator privileges to be executed. The command box from which SCE is run must have been launched using "Run As Administrator".

## 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 token RT\_ACCESS\_SUPPORT\_IN\_HPKTOOL 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 export and import 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-AMI in Core 5.12 or below and x-UEFI-AMI in Core 5.13 or above. 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 string name are considered to be ambiguous on UEFI 2.0 BIOS.
- Questions which depends on runtime service access variable only can support expression evaluation.
- 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.

## Version History

### SCE WIN

Ver 5.03.1115                      06/07/2018

#### New Features

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

Ver 5.03.1111                      05/29/2017

#### Issues Fixed

- Grayout and Suppress setup items in Runtime Error Logging page display abnormally in SCE dumped file. (EIP – 324479)

Ver 5.03.1109                      04/04/2017

#### Issues Fixed

- Upgrade AMISCE Windows to work if driver allocated memory address is greater than 4GB. (EIP – 325058)

Ver 5.03.1107

02/06/2017

### **New Features**

- SMM communication algorithm needs to be modified in SCE for windows (EIP – 310679)

Ver 5.03.1102

12/26/2016

### **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)

### **Issues Fixed**

- SCELNK-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

06/06/2016

### **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

08/02/2016

### **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 SCELNX\_64 cannot dump successful with command /g /sp in UEFI RHEL 7.1 OS. (EIP 223189)

Ver 5.01.1073      10/01/2014

### **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 5.00.1048      10/07/2013

- Release for AptioV

Ver 2.03.1047      09/26/2013

### **Issues Fixed**

- QA reported issues fixed.



Ver 2.02.1044

08/05/2013

### **New Features**

- APTIOV support
- Improve handling of duplicated or unmatched questions
- Output subtitles as comments to SCE scripts
- SCE work with mapping language
- Support management of migration feature including blocking migration via command line switch
- Add support for question evaluation to SCE
- Add command option to SCE to control export/import of boot order controls
- Substitute variable inside StdDefaults when a variable for a formset is missing
- Support for /sp command for suppress if opcode and /g command for grayout.
- Support for suppressing forms and submenu items

### **Issues Fixed**

- Aptio V - SCE\_WIN64 crushed during retrieving data from an AptioV BIOS - EIP95126
- SCEWIN not work under Win8 - EIP95654
- AMISCE does not properly handle 32 and 64 bit numeric control nor can it properly limit check signed numeric controls. – EIP 100678
- SCEWIN utility tool can't work – 96822
- SCE boot option question overflows buffer and uses wrong case for hex digits when reading Bootnnnn variable – EIP 106102
- Some versions of SCE lose the % character in question names – EIP 113274
- SCE question mismatch when prompt has trailing space – EIP 118838
- SCE tool is not updating the boot order properly - EIP 113459

Ver 2.01.1030

04/10/2012

### **New Features**

- Add /ds and /dm command line switch to load defaults from control value.
- Add '/q' command line switch to suppress warning messages.
- AMISCE to work with security update to SMIVariable
- Add password feature.
- Implement string controls.

### **Issues Fixed**

- Fix Controls with extreme number of options cause SCE to not list all options.
- Fix in parser error and warning messages.
- Fix failure to show options under nested suppressif..
- Prevent corruption of LegacyBootOrder variable
- Fix failure to report success on raw import when final variable is read-only.
- Allow raw import to change size of variable data.
- Fix Controls with extreme number of options cause SCE to not list all options.
- Fix failure to get strings when system language not English.
- Fix language control in exported script.
- Add checks for invalid options. Previously invalid values were accepted.

Ver 2.00.1020

11/3/2010

### **New Features**

- Added support to UEFI 2.1 in both 32 and 64 bit
- Added Standard (BIOS) / Manufacturing defaults update feature

### **Issues Fixed**

- SCEWin 32 bit can't work with some memory - EIP 46612

Ver 2.00.1004

Ver 2.00.0002

5/17/2010

- Initial release.

## **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.