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Aptio AMISCE 5.03 Release Notes

Aptio AMISCE Release Notes (Windows Version)

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NDA Required
(NDA)

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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

Release

- V5.03.1111   29 May 2017

Deliverables

- SCEWIN.EXE
- SCEWIN_64.EXE
- Amifldrv32.sys
- Amifldrv64.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.

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 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-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.

Version History

SCE WIN

Ver 5.03.1111   05/29/2017

Issues Fixed

- [Quanta-SVR][A56] 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

- SCELNX-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 presenst 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.