



## Aptio AMIBCP Release Notes

**Aptio AMIBCP 4.53 Release Notes**

**Document Revision 1.07**

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**Document Owner: Utility Group**

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NDA Required

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## Document Change History

<b>Date</b>	<b>Version</b>	<b>Description</b>
2009-08-24	1.00	Initial revision.
2009-09-10	1.01	Content review
2009-09-25	1.02	Work for Document Review
2009-09-28	1.03	Document Review
2010-02-12	1.04	Added UEFI 2.1 support. Updated for 4.50 release.
2010-03-05	1.05	Updated for the build 36, incremented the build number.
2011-02-02	1.06	Increased string capacity, FID 4, ESEC
2011-02-18	1.07	Update for build 50

## Release

- AMIBCP 4.53.0050 04/15/2011

## Deliverables

- AMIBCP.exe
- AMI\_Aptio\_AMIBCP\_User\_Guide\_NDA.pdf
- AMI\_Aptio\_AMIBCP\_Release\_Notes\_NDA.pdf
- font\_unic.txt

## Component Versions

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

- \* AMIBCP Version 4.53.0050
- \* FWLib.lib Version 1.05.0044

## Features

The following features are supported:

- \* Modify the F/w Image without requiring rebuild
- \* User Friendly Graphical Interface
- \* Modify Setup Information.
  - \* Edit Page and Control Captions
  - \* Edit control accessibility (User, Supervisor, Extended User etc...)
  - \* Edit control visibility: Show/Hide the Control
  - \* Edit default values
- \* Edit BIOS strings
  - \* Edit strings
  - \* Access next string
  - \* Access next string with a specified pattern
  - \* Search for string (with a specified pattern)
  - \* Multi-lingual support
  - \* Ability to display default strings when there are no corresponding strings in a language

- \* Add Strings for a language
- \* Replace Strings for a language
- \* Remove Strings for a language
- \* Extract Strings of a language into a file
- \* Modify PCI IRQ Information
- \* Modify SMBIOS tables
  - \* Modify SMBIOS table data
  - \* Edit SMBIOS table strings
- \* Display and edit ROM Features
  - \* Lists CPU patches.
  - \* Shows version and build information
  - \* Allows editing of sign-on message and OEM string.
- \* Supports images containing Hole (fixed) files
- \* Support images with top-down volume allocation
- \* Support for Capsule files
- \* Support for NVRAM Defaults
- \* Support for Boot order
- \* Supports LZMA
- \* Single executable
- \* Support for TSE 2.0 setup structures.
- \* Supports drag-and-drop feature that allows you to open files by dragging.
- \* Support for UEFI2.1 images.
- \* Features tab compatible with Firmware ID table version 4 (New).
- \* Sign-on string version 2 (New).
- \* Compatible with ESEC startup method (New).

## Supported Operating Systems

The AMIBCP is supported by the following operating systems:

- Microsoft® Windows® 2000
- Microsoft® Windows® XP
- Microsoft® Windows® 2003

- Microsoft® Windows® Vista
- Microsoft® Windows® 7

## Compatibility

Compatible with the FFS Spec (refer to documents FFS\_0-9.pdf, FV\_0-9.pdf and FvBlock\_0-9.pdf)

Compatible with PI 1.0 Spec, not tested with Aptio.

Compatible with Aptio 3, 4, and 4.5 and later. However, Aptio 3 has not been instrumented to completely support AMIBCP. The limitation is not with the tool itself.

Compatible with hole files.

Compatible with top-down allocated volumes produced by FWBuild 1.16.16 and later.

Compatible with TSE 2.0 setup structures.

Compatible with UEFI 2.1 firmware images.

Compatible with images produced by other tools using Optimize size, ESEC startup, and PEI relocation support.

Compatible with version 2 sign-on string.

## Version History

Ver 4.53.0050

04/15/11.

Maximum string capacity per firmware file section increase to 7000.

FID versions 3-4 support added.

New version of sign-on string added. String may be in a different FFS file.

Library updated for ESEC BIOS start-up method.

Update to capsule file support.

Maxim controls per page capacity increased.

Major version number can be edited.

Bug fixes.

Ver 4.50.0036

03/05/10.

Updated for the build 36. Incremented the build number

UEFI 2.1 support added for string and Font packages

Drag and drop feature added.

Library updated with different run-time relocation and Optimize size support.

Ignored the "Fontcfg.ini" from the executable.

Bug fixes.

Ver 4.40.0023

06/25/09.

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Add ROM Features tab

- Lists CPU patches.
- Shows version and build information
- Allows editing of sign-on message and OEM string.

Support more than 256 files/volume.

Library component upgrade

Updated setup control help strings in the GUI.

Numeric type support added for setup defaults.

Bug fixes

Ver 4.39.0015

08/08/08

Maximum number of strings per section increased from 1636 to 2048.

Maximum number of options per pop-up control increased from 64 to 128.

Capacity increases from both build 14 and 15 are incorporated into this release.

Maximum number of controls per page increased from 32 to 64

Maximum number of displayable strings increased from 2000 to 10000

Single executable with new version of FWLIB.

Bug fix for storing NVRAM defaults

Bug fixes

Ver 4.30

9/28/07

Single executable

Ver 4.06.0005

8/29/07

Added support for NvRAMDefaults

Added support for Boot order group mode

Ver 4.06.0003

8/15/07

Added support for Boot order

Added LZMA support

Ver 4.05.0002

5/25/07

Use compression consistent with latest build tools.

Fixed issue with alignment.

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Correctly fixing PEIMain location references and AP reset vector.

Corrected call to PeiDebugFixup

Ver 4.05.0001 5/07/07

Added fonttool call to [drawing] language.

Removed unsupported drag and drop.

Fixed issue with GUI refresh.

Only call fonttool for non-English glyph string changes.

Removed unused checkboxes from setup page tree.

Fixed issue in FVDLL with incorrect file state

Ver 4.04.0001 3/12/07

Fixed issue with calls to PEIRbase.

Ver 4.04 3/02/07

FVDLL with complete FFS spec support.

Modifications to GUI.

PEIRbase support added

Multilanguage support added.

Ver 4.03.0001 1/24/07

Added check for WinPE.

Ver 4.03.0000 11/30/06

Added fix for Access/Use issue.

Ver 4.02.0000 8/4/06

Added capsule support and Aptio3 support.

Fixed bugs from previous QA test cycle.

Added support for modified setup data structure.

Ver 4.00.0000 12/14/05

Ported AMIBCP for Aptio and Alaska Firmware

## Limitations:

1. The Setup Configuration tab will not be displayed if the Setup data of given ROM image exceeds the maximum limit of 0x100 PAGES and 0x2000 CONTROLS (or Questions). For e.g. In the above screen, the parents in the tree control will count PAGES and all their corresponding controls listed right side will count CONTROLS/Questions. A control may have no more than 1024 options.
2. BCP supports a maximum of 16 languages to be added with BIOS Strings tab.
3. No string may be longer than 0x400 characters. The maximum number of strings per section (form set) per language is 7000. The maximum total number of strings per language is 10000.
4. Supports only simplified fonts.
5. String support for default fonts only. Does not support string block types with FONT, DUPLICATE, or SCSU as part of the name.
6. The maximum PCI IRQ table capacity is 256 entries.
7. BCP will not open the ROM image, if the directory name is more than 200 characters.
8. Supports maximum resolution of 1024 x 768, if that exceeds the ROM image workspace will not be extended.
9. Some restrictions may apply to capsule files. See the AMIBCP specification for details.

## Known Issues

1. Setup configuration tab does not support mouse scroll operation.

2. Strings longer than 1024 characters are discarded.
3. Once an image has the maximum number of languages you cannot add a language even if you previously deleted one.
4. There have been some reports of “save as” operation failing to add “.rom” suffix when saving files with “.rom” suffix.