Aptio

...beyond BIOS

American Megatrends

Aptio®: The Complete UEFI Product Solution

Standards Based

Uses UEFI & the Intel Platform Innovation Framework for EFI

- UEFI IA32 & x64 bindings
- Integration with Intel EDK

A Single Core For Any Application

Validated solutions in multiple PC market segments

- Desktop
- Mobile
- Server
- Embedded
- UMPC

Supports Multiple Silicon Vendors

Broad CPU & chipset support

- Intel®, AMD, NVIDIA, SiS, VIA
- Available on Intel MPG, ECPD & UMG platforms

A Complete Solution

Product Ready UEFI Solution

- Aptio 4.x Core
- Optimized codebase
- Template-based porting

Development & Debug Tools

- Visual eBIOS (VeB)
- AMIDebug™ for UEFI

Deployment Utilities

- Flash utilities for multiple operating systems
- AMIBCP, MMTool & Change Logo for ROM image maintenance
- DMIEDIT for SMBIOS data management
- AMIDiag® for UEFI for testing & burn-in

Moving Beyond BIOS

AMI presents Aptio® as the next-generation solution for BIOS. Aptio incorporates over 20 years of experience delivering AMIBIOS solutions while moving beyond legacy BIOS limitations. Aptio is a highly modular solution, portable across a variety of platforms. The Aptio driver model, based on UEFI and the Framework, delivers higher flexibility than BIOS and provides new opportunities for applications in the pre-boot environment.

Visual eBIOS (VeB)

Leveraging Unified EFI and the Framework

Aptio takes advantage of several specifications that have grown from the original Extensible Firmware Interface (EFI). The PC industry extended EFI through the Unified EFI (UEFI) specifications, adding improvements such as USB 2.0 protocols and x86-64/EM64T (x64) processor bindings. Interfaces related to interoperability between firmware components are developed by the UEFI Platform Initialization Work Group (PIWG).

The Intel® Platform Innovation Framework for EFI, commonly referred to as "the Framework", describes the architectural interfaces for a product-strength EFI/UEFI implementation. Aptio and the Framework are implemented in C, enabling the BIOS industry to enable UEFI on new platform designs. Intel uses firmware based on the Framework for UEFI implementations.
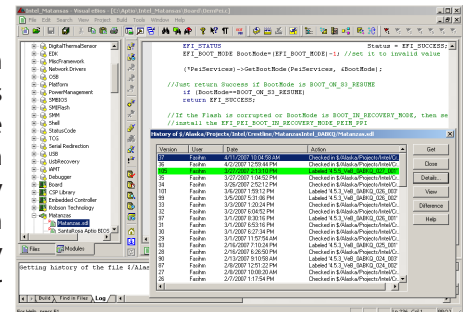
Building on AMI Expertise

Aptio leverages UEFI and the Framework to create a next-generation BIOS solution, while adopting concepts that have lead to the success of AMIBIOS8 in the PC market.

> Aptio uses Visual eBIOS (VeB), a development environment created for BIOS porting:
> > Project Wizards assist in project creation and porting, including graphical IRQ routing
> > Source control integration: Source Safe, PVCS, ClearCase, Dimensions, Subversion
> > AMI Remote Source Control (RSC): component updates on-demand ... 24/7/365

> Template-based porting model separates board-level changes from core features
> eModule structure allows source components to migrate across multiple platforms
> Extensive source library for the latest silicon and technology support
> Support for the latest technologies, such as iSCSI boot and boot to SDIO/CFIO.

Smooth Migration from BIOS to UEFI

Customers moving their platforms from legacy BIOS to Aptio will find a number of product features designed specifically for a smooth transition.

> Compatibility Support Module (CSM), based on AMIBIOS8, adds legacy BIOS interfaces to Aptio for supporting UEFI and existing OS applications
> Visual eBIOS (VeB), a common porting environment for AMIBIOS8 and Aptio

American Megatrends

American Megatrends Inc.
5555 Oakbrook Parkway, Suite 200
Norcross, GA 30093 | t: 770.246.8600
Sales & Product Information
sales@ami.com | t: 800.828.9264
Technical Support
support@ami.com | t: 770.246.8645
www.ami.com