

Visual eBIOS

Visual eBIOS™ (VeB) Integrated Development Environment



AN INDISPENSABLE TOOL FOR STABLE AND MODERN BIOS DEVELOPMENT

Visual eBIOS (VeB) is a graphical Integrated Development Environment (IDE) created for product-strength firmware development. Introduced by AMI in 2001, VeB provides the advanced graphical environment for firmware development in Aptio® V, AMI's flagship UEFI BIOS.

EXTREME FLEXIBILITY WITH CROSS-PLATFORM AND MULTIPLE OS SUPPORT

The Visual eBIOS (VeB) development environment supports multiple operating systems, including Windows® and Linux®, with cross-platform support for x86, x64 and ARM systems. Not only can VeB reduce the need for coding with complex commands, consistency between Aptio versions and hardware platforms means there is no need to re-learn how to use the tool. Instead, the VeB development environment allows firmware engineers managing different product lines to share their development experience, leading to improved product quality and stability.

HIGHLIGHTS OF VISUAL eBIOS

- Build projects directly from VeB
- Manage project settings, view project output & capture build logs
- Support for Arithmetic operations with operator precedence for SDL language
- Support to build a single component from VeB

INTEGRATED DEBUGGER SUPPORT

- Source Level Debugger
- UEFI Driver/Application/Option ROM Debugger
- Breakpoint Management
- Capability to view Disassembly Source

INTEGRATED EDITOR SUPPORT

- Includes global find & replace functions
- Use external editors & difference tools with VeB
- Support for opening project files with system default editors
- Management of VeB editor templates and macros

PROJECT MANAGEMENT CAPABILITIES

- Create projects based on individual eModules or reference projects
- Firmware image layout
- BIOS Parameters Wizard manages System Description Language (SDL) parameters for all eModules in an Aptio project
- New file wizards assist customers when adding functionality to projects

MODULARITY SUPPORT

- Logically group related files & components as eModules (Core, Chipset, CPU, Flash and more)
- Manage eModules and components using Component Information Format (CIF) files
- Manage library components from source control & private project components
- Utilize history, difference & label functions from within VeB
- Add components directly from source control
- Direct source control integration with Source Safe, PVCS, ClearCase, Dimensions, Subversion and AMI Remote Source Control (RSC)
- AMI RSC gives customers 24/7/365 access to AMI source repositories
- Download multiple components at a time
- One project can support multiple source control database formats

HIGHLIGHTS:

A Development Environment Built Specifically for Aptio V

VeB includes project configuration wizards to guide developers along the way, and quickly create new platforms from reference UEFI source projects.

Its familiar, intuitive interface includes integrated project management & source control interfaces and helpful wizards.

Modular Project Management

Flexible management options allow developers to view projects by source tree or eModules. Developers also have the ability to add eModules to existing projects using VeB's excellent source control integration features.

Integrated Source Control Support

VeB offers integrated connection to AMI Remote Source Control (RSC) for direct customer access to source code. This integration with RSC enables full source & project management directly within VeB.

Based on Eclipse IDE

VeB uses the popular Eclipse Framework to provide familiarity and compatibility for developers across platforms.



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