American Megatrends

Visual eBios Release Notes

VisualeBios Release Notes

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Table of Contents

Document Information

Purpose

This document provides information about VeB releases and its features.

Audience

The intended audiences are BIOS developers, Generic Chipset Porting Engineers, OEM Porting Engineers, and AMI OEM Customers.

Revision History

Date	Revision	Description
07/06/2007	7.00.0006	Initial draft
2011-02-26	1.12	Updated for release version 7.10.0025
2011-10-12	1.18	Updated for release version 7.11.0046
2012-02-16	1.25	Updated for release version 7.13.0063
2012-06-04	1.40	Updated for release version 7.14.0084
2012-06-08	1.41	Updated for release version 7.14.0086
2012-06-15	1.42	Updated for release version 7.14.0088
2012-06-20	1.43	Updated for release version 7.14.0089
2012-08-06	1.44	Updated for release version 7.14.0105
2012-08-08	1.45	Updated for release version 7.14.0106
2012-09-13	1.46	Updated for release version 7.14.0116
2012-09-28	1.47	Updated for release version 7.15.0121
2012-10-01	1.48	Updated for release version 7.15.0122
2012-10-01	1.49	Corrected NDA Release Notes Information
2012-10-19	1.50	Updated for release version 7.15.0124
2012-11-02	1.51	Updated for release version 7.15.0128
2012-12-07	1.54	Updated the version history for 7.15.0136
2012-12-12	1.55	Updated the version history for 7.15.0142
2013-01-11	1.56	Updated the version history for 7.15.0160
2013-01-21	1.57	Updated the version history for 7.15.0167
2013-01-22	1.58	Updated the version history for 7.15.0169
2013-02-15	1.59	Updated the version history for 7.15.0175
2013-02-26	1.60	Updated for release version 7.15.0179
2013-02-27	1.61	Updated for release version 7.15.0180

2013-03-20	1.62	Updated for release version 7.15.0184
2013-11-12	1.66	Updated for release version 7.15.0248 Formatted document
2014-01-03	1.67	Updated for release version 7.15.0252
2014-03-31	1.68	Updated for release version 7.16.0267
2014-05-29	1.69	Updated for release version 7.16.0270
2014-10-16	1.70	Updated for release version 7.16.0286
2014-12-10	1.71	Updated for release version 7.17.0302
2015-02-06	1.72	Updated for release version 7.17.0303
2015-02-20	1.73	Updated for release version 7.17.0314
2015-03-30	1.74	Updated for release version 7.17.0325
2015-08-04	1.75	Updated for release version 7.18.0393
2015-12-30	1.77	Updated for release version 7.18.0424
2016-03-29	1.78	Updated for release version 7.18.0443
2016-06-30	1.79	Update for label BuildTools_29

Release Notes

Deliverables

- VisualeBios.zip
- AMISDL.jar
- ParseVeB.jar
- OverrideProcessor.jar
- AMISVN_JavaHL_LinuxLibraries.zip
- AMISVN_JavaHL_LinuxLibraries_X64.zip

Component Versions

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

- VisualeBIOS   Version 7.19.0448
- RoboVeB   Version 7.19.0061
- AMISDL   Version 7.04.0230
- ParseVeB   Version 7.04.0104
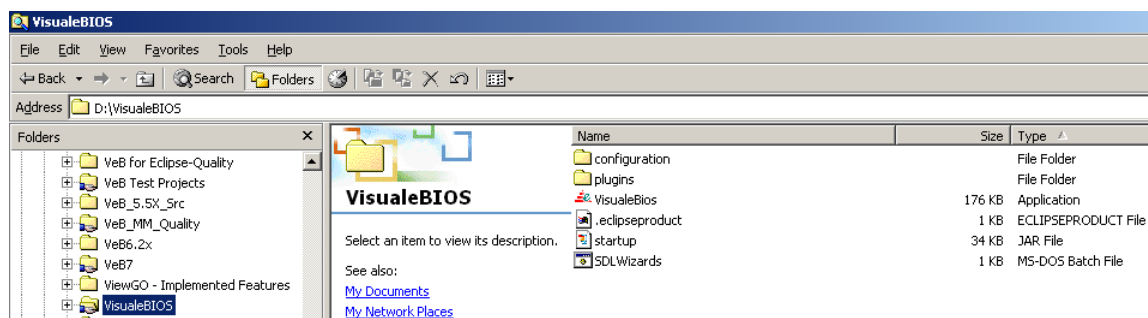- OverrideProcessor   Version 7.04.0037

Supported Operating Systems

The VisualeBios is tested in the following operating systems:
- Microsoft Windows® XP 32 bit environment
- Microsoft Windows® XP 64 bit environment
- Microsoft Windows® 7 32 bit environment
- Microsoft Windows® 7 64 bit environment
- Microsoft Windows® 8 32 bit environment
- Microsoft Windows® 8 64 bit environment
- Microsoft Windows® 8.1 32 bit environment
- Microsoft Windows® 8.1 64 bit environment
- Microsoft Windows® 10 32 bit environment
- Microsoft Windows® 10 64 bit environment
- Microsoft Windows® Vista 32 bit environment
- Microsoft Windows® Vista 64 bit environment
- Microsoft Windows® Server 2003
- Microsoft Windows® Server 2008 R2
- Microsoft Windows® Server 2012 R2
- Ubuntu Linux 64 bit environment

Installation Instructions

- Minimum System Requirements

  – Pentium 4 2.8Ghz, 4 GB RAM

- Install JRE 1.7 or later from http://www.java.com/en/download/index.jsp.

  Note: *32-bit JRE is required for running Visual eBios under any 64-bit Windows OS. Visual eBios will not work with 64-bit JRE under Windows.*

- Extract the zip file to a location on local disk, where build tools are copied. If a second version is needed on the same system, it can be placed elsewhere as needed.

In Windows

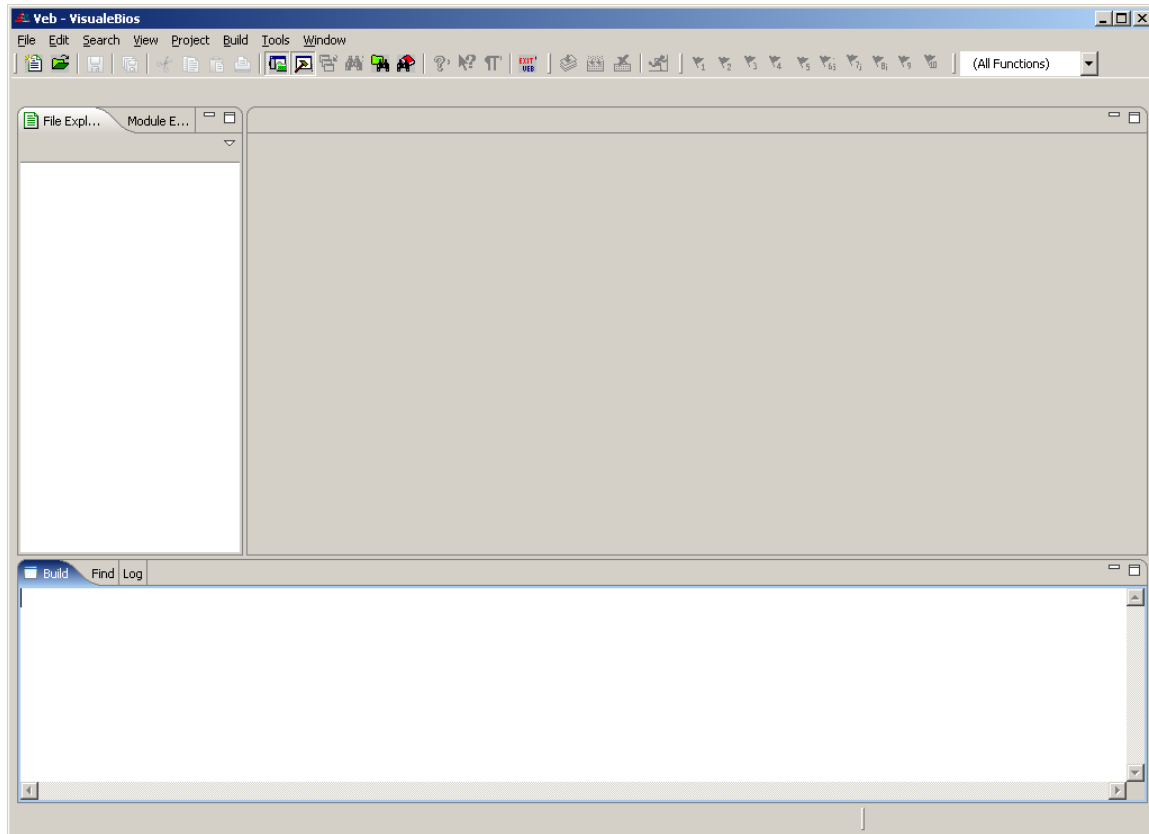- Launch VisualeBios. This will display the following splash screen

- VisualeBios will be launched.

AMI Subversion support in Linux Environment

For installation under the Linux environment, execute the file "VisualeBios_Setup.sh" from a terminal window and follow the steps to setup and run Visual eBios.

Note: The template script is written for execution under Ubuntu and must be ported for other flavors

Known Issues

1. When any PCIDevice, SIODevice or LDevice that is referred as Parent is made inactive, AMISDL will report error and bios parameter wizard will not be opened.

2. During missing component download, the log is not runtime. Due to this, while downloading complex component the application will look not responsive.

3. Locate Operation will not work for the scenarios, when performed for a missing file whose path contains "../" in Module Explorer and when performed for a missing file in File Explorer.

4. When VeB pops up any message dialog saying "Failed to load specific template" during Get operations, check the log window for the details.

5. Perform download of project from a project residing in local drive will download the library components also from the local drive and not source control.

6. VeB Linux flavor displays the dialogs and wizards as modeless dialogs

7. The log window entries will be cleared if the limit of 9,99,000 is reached.

8. Heap exception will occur if the default heap size allowed by eclipse is not sufficient. Following are some example scenarios for heap exception,

   ▪ Opening file of size greater than 30MB or opening many files of greater MB size in single instance of VeB

   ▪ Downloading project with component having large sized file (> 20 MB)

   ▪ Adding component of size more than 30MB

To avoid this heap exception, increase the heap size of the JVM by including the following in VisualeBios.ini file present in the package.

> -vmargs
> -Xmx512M
> [OR]   - based on requirement if 1GB heap space is required, include the following
> -vmargs
> -Xmx1024M

9. From Tools 24, spelling check is enabled by default whereas in previous versions of VeB (7.16.0258 and before), the spelling check is disabled by default. Hence on importing preference from these versions to Tools 24, the spell check will be disabled. To enable the spell check after import do the following,

   • Launch Tools 24

   • Import Preference from previous versions (7.16.0258 or before)

   • Open any file in editor

   • In vertical ruler of the editor right click and select "Preferences" menu item, in the launched "Preferences" dialog select "General->Editors->Text Editors->Annotations->Spelling errors" and check "Vertical ruler", "Overview ruler" and "Text as" check boxes
        Click "Ok" button

10. The following UI issues are observed on executing Visual eBios in Ubuntu 13.10,

   A)   Menu items not visible or menu item is not working

B)   Shortcut for menu items not displayed

C)   Outline View contents is not clearly visible as the back ground color is black

To resolve the issues, please perform the following:

1. Launch VeB through VisualeBios.desktop file available with the deliverable

2. In terminal type 'sudo gedit /usr/share/themes/Ambiance/gtk-2.0/gtkrc '

3. Edit gtkrc file as below,

Change the contents from

gtk-color-scheme   =   "base_color:#ffffff\nfg_color:#4c4c4c\ntooltip_fg_color:#FFFFFF \nselected_bg_color:#f07746\nselected_fg_color:#FFFFFF\ntext_color:#3C3C3C\nbg_c olor:#F2F1F0\ntooltip_bg_color:#000000 \nlink_color:#DD4814"

To

gtk-color-scheme   =   "base_color:#ffffff\nfg_color:#4c4c4c\ntooltip_fg_color:#000000 \nselected_bg_color:#f07746\nselected_fg_color:#FFFFFF\ntext_color:#3C3C3C\nbg_c olor:#F2F1F0\ntooltip_bg_color:#FFFFFF \nlink_color:#DD4814"

11. VeB launcher icon is not displayed in the left side task bar, instead '?' icon is displayed in Linux 13.04 or earlier versions.

   To resolve this issue apply the same solution described for the previous known issue

12. EIP 230454 [REF-36290] Launching Multiple VeB instances shows 'Periodic workspace save' error and exiting VeB shows 'Problem occurred while trying to save the state of workbench'

13. Following issues have been observed with INF / DEC Editor

   a. Status View is not showing

   b. When we do some changes and save the same on external files in INF/DEC wizard, the changes are not getting reflected in the source page.

   c. Incremental search doesn't work on the editor.

   d. Under Linux thereis problem opening preprocessed INF file under Build folder

   e. Opening more than 40 INF editors at a time causes VeB to run out of memory and go into a hang like state.

   f. When we edit an INF/DEC file through the source tab then do undo – the dirty (*) mark doesn't go away from the editor.

   g. Performing a build -> clean, doesn't close already opened INF\DEC editors.

14. Currently VeB under Linux, has some pitfalls with regards to displaying the menus (especially when working with the Multi-Platform Projects) and to resolve this issue we can generate a .desktop file which serves as a workaround to overcome such UI related issues and its creation is briefly described below :

15. Opening the Setup configuration wizard takes more time in a system with 2GB RAM, whereas the same open takes relatively less time when using 4GB RAM.

16. RoboVeB (under Linux) showing exception traces, when trying to perform a build operation. Operation still proceeds (without any hindrances) leaving behind the traces.

17. VeB log view shows 'Connected to AptioV' multiple times when dependency evaluation in progress

18. VeB log view is focused forcibly every time dependency evaluation is in progress

19. VeB displays as Connecting as "": null, when trying to connect to SVN in Linux VeB.

Version History

BuildTools_29

New Feature
1. Setup Configuration Wizard Support
2. Support DEC and INF format extensions in VeB as in specification revision 1.24
3. Graphical INF and DEC editor

Enhancements
1. Locate option at context menu of module explorer
2. VeB-Introduce menu options on right click of File editor tab
3. Support for a eLinks that ignored during output generation.
4. Select a patch and export it as ORG folder and MOD folder format
5. choose destination among original or override file path when applying a Patch
6. Patch Management - add features for export patch to local/import local patch
7. Generate a patch Report based on the local project patch file
8. VeB- Close the AMI Web page after download project
9. VeB displays user a dialog for resolving components that have same ref name as part of Add or Update component operation
10. Use "Publish Component" when adding components to source control
11. Use "Add Files to Source Control" when adding files to source control

Fixes
1. Fixes to Dependency Expression to handle correct Label formats
2. Fix issues with VeB GUI
3. Fix issue with "Get Latest Version" where INF module gets deleted
4. Resolve Ambiguity Dialog shows different (wrong) order for INF files
5. Resolve Issue with Update component
6. Fix issue with GUI where some of dialog buttons disappear
7. Fix issue with Project Menu Items being duplicated when Perspective Is Reset

BuildTools_28

New Feature

1. EIP 233388 - VeB - Patch Management - Export patch to local

Enhancements

1. EIP 239781 - ParseVeB - Change the Error message as Warning message, if file is not found
2. RoboVeB Optional Credentials – username and password parameters made as optional and not mandatory as did previously

Fixes

1. EIP 224368 – VeB Eclipse built-in editor appends additional BOM characters to modified UNI files
2. EIP 233418 – Fixed issue with deletion in RoboVeB
3. EIP 234357 – VeB- Deleting a flavor component that contains a shared file deletes the shared file
4. EIP 235824 – If apply patch to a component which has no INF component, "Apply Patch Button" will not respond
5. EIP 236039 – Styx project build fails with tools27 due to incorrect path separator slash
6. EIP 236561 – Unable to perform change working path when using custom SVN database layout
7. EIP 232475 – VeB Ascii Table Characters Cut-off
8. EIP 238350 – Incorrect message displayed when PCI DEVICE is cloned to individual platform flavor
9. EIP 248469 – When a user chooses to update a component dependency, the component and its module part must be updated
10. EIP 242049 – Check-in comments cannot be fully edited when AMI Format is not enforced
11. Issue fix: When project and components reside in different repository and project contains at least one dependency expression, source control write operations to the project repository doesn't work properly. (Refer EIP 241717, 240436)
12. Issue Fix: When publishing modules that have no files and contains only module parts, the module CIF is added to the repository root instead of the selected folder.

BuildTools_27

New Feature

1. Support for Multi-Platform projects
2. Support for integrated CPP Check
3. Support for importing EDK II packages using FDF file definitions
4. Support for Check-in across components
5. Support for GUID generator
6. Add Component Licensing information as part of check-in wizard

Enhancements

1. Add support to VeB to enforce the mandatory check for AMI format during Check-in
2. Add support to VeB to toggle enforcing AMI labeling format
3. Add support to customize location of VeB AMISVN connection data
4. Enhanced Check-in wizard to list only modified file entries comments section. Note: This supports is applicable only when working with AMISVN database.

5. ASCII Table – Enhanced ASCII table dialog
6. Optimization of AMI SDL parsing and validation
7. Add support to search only in a selected INF Module in "Find in Components"
8. Improve searching of patches by ID

Fixes

1. Fixed issue when cloning a Library Mapping it does not allow the removal of all Module Types
2. Fixed issue Token is not expanding if it's concatenate with any string in PCD Value
3. Fixed issue Token is not expanding when the value string contains operator(-) symbol
4. Fixed issue with VeB Add to Source control operation not creating the correct folder structure in source control
5. Fixed issue where Master token redefine is output twice in MAK and H meta-data output
6. Fixed issue INFComponent Preprocessing failed for cloned INFComponent entries
7. Fixed issue - NULL LibraryMapping Override does not apply when respective INFComponent is cloned
8. Fixed evaluates dependencies issue with ParseVeB
9. Fixed "Check out" from right-click context menu or project->source control menu that has no effect for flavor .cif file or project .veb
10. Fixed RoboVeb to returns the correct ErrorLevel on encountering build error
11. Fixed issue where F4 has to be pressed twice before first error or first search result is highlighted
12. Fixed issue where VeB updates the original file location with the overridden file during any component download
13. Fixed VeB label issue where module names contain hyphen when AMI labeling format is turned on
14. Fixed issue evaluating dependency expression for Build Option type ELINKs used to override in DSC files
15. Fixed issue with VeB's yellow "Label Comments" popup box staying on top of other windows
16. Fix issues with VeB UI dialogs not displaying modules correctly
17. Fixed issue with VeB failing to cleanup temporary files that are opened using the "copy to editor" operation
18. Fixed issue with AMISDL not providing proper error message to the user
19. Fixed issue with New component wizard not creating master token When INF is required to be created

BuildTools_26

This deliverable package contains Help plugins related to Debugger.

New Features

1. VeB Support for Component Dependency
2. Mapping between Build tools to their Label.

Enhancements

1. Mapping between Security patches and its original Patch ID
2. RoboVeb – Switch introduced to stop the download operation if Cache Download fails.
3. Visual eBIOS support for manually entered _UID in PCI Device
4. VeB File Checkin Wizard - Changes in Severity level for Non Defects EIP
5. Support for compare functionality for override file with its original file.
6. RoboVeb - Switch introduced to skip enhanced download support
7. VeB changes related to ARM architecture support in PCI Device

8. In Search operation the default directory of "Additional folders" and "Exclude folders" set to current project's directory
9. Support for Enforcing AMI Label format
10. Add context menu support for source code formatting in c, h, mak editor

Fixes

1. RoboVeb – Download project should proceed if anyone alias creation succeeded.
2. VeB don't change StdSio property in APTIO_V_SIO sdl output.
3. When cloning a Library Mapping it does not allow the removal of all Module Types
4. AMISDL fix – Token entires are missing in token.h while using Build tools 25 to build project.
5. AMISDL Output Wrong INF File to Build Folder when "Preprocess = YES"
6. Change working Path is not working after importing Patch from local
7. Issue with RoboVeB - Log file is not updated with all the error messages
8. AMISDL throws exception under Linux while building a project which building successfully in Windows
9. Clicking Add Component Scripting (Ctrl+Alt+A) option, started downloading the previous downloaded component... instead of launching the wizard
10. Patch iteration numbers are not displayed for the Patch Id's, in remove patches confirmation dialog
11. VeB Eclipse prompts to delete entire project directory when trying to create a UNI file
12. (INT)5.004_BuildTools_25 Linux 64 VisualeBios's Import Preferences is unable to import preferences from Tools_24-6
13. Build fail when modify PLATFORM_TYPE by BIOS parameters.
14. Some syntax color cannot be changed
15. AMISDL reports an error without checking the token dependency
16. RoboVeB is taking system password for third party support instead of the Password passed in command line
17. Text is not visible in "History Details" or "Check-in" Pop-up windows in Veb when Font size is increased in Windows.

BuildTools_25.6

Issues fixed

1. Reference Project creation fails in Build tools 25
2. Project build is failed with Build tools 25 and same is succeeded with Build tools 24.6.

BuildTools_25

New Features

1. EIP 119519 - Patch Management System support for Visual eBios
2. Automatic update for Tools
3. EIP 162082 - Support for Packaging Dual Boot FV in A Firmware Image
4. Add support to collect check-in comment before a label operation
5. Add support to VeB to retrieve EIP information during check-in, Add and Publish operation
6. RoboVeB support in Linux environment
7. Support Auto Size and Auto Offset for FD areas
8. Add support to VeB to display the installed Plugins and their versions

Enhancements

1. Support to display EIP reference as hyperlink in history dialog comments section
2. Add support to RoboVeB to download project using a local veb file
3. Add support to manage SDL objects and clones on update
4. Add support to AMISDL to treat FFS_FILE SDL object attribute FD_AREA as optional
5. Add support to manage syncing of the overridden file with Original file
6. Add same controll as for _WAK and _PTS object in ACPI tab for "Wake PME Settings" object.
7. Add support to AMISDL to process nested grammar as part of elink grammar
8. Support multiple file check-ins across component and its module part
9. Tools Panel tree view missing different images for different type of devices
10. Some of the "Project->Project Management" options are not working when a file in File or Module Explorer is selected and also new editor window is opened for every successful operation
11. Warn user if the overridden file is attempted to be checked in
12. Add Checkbox to turn off showing scalability dialog
13. Add Intellisense tab in "Tool->Options" dialog
14. Window->Windows only allows for one line to be selectable
15. VeB - Label dialog exits on appyling a duplicate dialog losing all information entered
16. Do not Import .svn folders when using Aptio V import wizards Component files are checked out during Project/Component label
17. No way to check-in multiple file if parent cif/inf file is not checked out.
18. Support context menu to view difference in external tool
19. Improvements to Doxygen Wizard provided in Visual eBios
20. Add search option to omit "binaries" or add option to identify files not to search
21. Can search through components default to using whole project if no component specified
22. [Suggestion] Entire "Source Control: Files Report" window getting closed, on canceling the Files Report
23. VeB - Ability to add multiple files to source control
24. remove the two PCD types from the list of types
25. Support speedup download for reference project
26. Providing module name in the different check latest/labelled result.
27. [Suggestion] Some of the Source Control, Project Management options in Project menu can be disabled when a file/component path is selected in "Source Control:..." windows
28. VeB - Implement project download speed up for INT labeled projects.
29. When VEB component is being labeled, VEB should validate there are no spaces in label.
30. VeB interface for debugger to work independently

Issues fixed

1. VeB warning occurs unexpectedly, while updating files belonging to multiple components
2. Ctrl + Q on Last line seems misbehaving
3. Target File is blank when doing a show Difference on some files
4. Rom Layout Wizard fail to save GUID for NVRAM_BACKUP FD.
5. Incorrect attributes dialogue for RootBridge object and PciDevie
6. VeB Module Explorer Hanging after using "Add Files" and "Add INF Module" option of pop up menu
7. Visual eBIOS does not create Customer Project Flavor as it did in Aptio 4
8. check missing file issue fail
9. shortcut key "CTRL+W" can't work in Veb_24.
10. Find a string in LeptAppStr.uni is not working using VeB 7.15.0248
11. FDF generation does not honor AARCH64_PLATFORM_DSC support
12. VEB popup windows do not always refresh properly

13. Cannot add fifth entry in the Environment Variables -> Application Variables
14. VEB Deletes other directories when we use Delete component
15. Tools Panel showing all objects w/o checking dependencies in project
16. VeB Empty Component Wizard fails when creating a duplicate CIF filename.
17. VeB don't allow entering same Bus numbers on different Segment
18. [AptioV][BuildTools][AmiSdl] Platform.fdf has duplicate FV section
19. AMISDL should display more debug info once it is crashed.
20. The VeB does not properly remove a component in certain cases
21. Veb SVN Issue Found - Replace function can't be used if the words are highlighted.
22. Set Private for CIF will set the component private

5.004_BuildTools_24_6

Enhancements

1. Support to expand the value of macro in a INF file when INF Preprocess option is used in SDL file

Issues fixed

1. AptioV VEB r24 build failure with token value = "-1"

2. Platform.fdf has duplicate FV section

3. FDF generation does not honor AARCH64_PLATFORM_DSC support

4. INF Preprocessing Support issue fixes

5. Revoke Changes done for Ordering of INF, Option Rom and File Statement with in FDF

5.004_BuildTools_24

New Features

1. Support to group orphan components

2. Intellisense support including Code completion Assist, Open symbol / Declaration, Call Hierarchy, Quick Outline, Source Doxygen comment generation, Explore Macro Expansion, Source formatting, Refractor Code, Jump to last Edit location, Show Defined Value as tool tip on mouse hover, Toggle Comment, Add/Remove Block Comment, Refactor/Rename, Previous/Next Member, Find Symbol, Re-scan Symbol, and Browse For Symbol

3. Support to generate and view help document for component and individual files using Doxygen

4. Support SVN solution of third party access

5. Project download speed improvement

6. Support for 64 bit token type

7. Command-line Utility to Download projects, Add and update components, and Build projects

8. Support for setting and generating reports on COO

Enhancements

1. Show detailed File History for INF and component files
2. Open Project in VEB from command Line
3. Ability to Import settings from another VeB installation
4. Ability to exclude folders from Find In Files search
5. Ability to skip opening files from previous session
6. Ability to reset SVN connection by configured Alias
7. GUI enhancement to set label as internal
8. GUI enhancement to display PCI device attributes in bios parameter PCIDevice tab
9. Download VeB project file only
10. Map SVN error to meaningful strings
11. Output Build options type elinks to token.mak
12. Enhanced AMISDL error reporting
13. Asynchronous Project management reports
14. Enable Macro Expansions Support for attributes in LDevice
15. GNU make compatible MODULE_MAK
16. Enabling spelling check

Issues fixed

1. Use Veb AptioV to open two exactly the project, the configuration of second veb will be gone
2. AMISDL not supposed to generate ASl device objects for PCIDevice objects and LDEvices whose don't have AslName or ASL File properties set
3. VeB 7.15.0245 under Linux does not allow .inf files to be set writable
4. When add component over 3432 files of eModules, VeB will stop this process and lost a lot of eModules' files
5. Incorrect error message when editing private files
6. Show Difference is not working for tool meld under Linux
7. Aptio V VeB Flag Buttons do not work the same as in Aptio 4 VeB
8. Unsaved file are not automatically saved before check in
9. VEB freezes the whole system when I try to open file with the extension .bin
10. add "SrcSafe" toolbar as VEB for Aptio IV
11. AptioV: Veb file search wrong folder path
12. If select hide toolbar. No menu Item to show toolbar
13. VeB Font setting has something issue when background is set as black, keywords of source code would appear missing
14. Pvcs issue reported by Congatec and Aptio5 VEB
15. Confirm files overwrites is not working in AptioV VeB

16. VeB/AMISDL processing produces invalid FDF file when SDL token has empty value

17. SDL output doesn't contain USB_DEBUG_TRANSPORT with conditional AMIDEBUG_RX_SUPPORT

18. [AptioV] build error with override Tokens

19. No user name and date for displayed project label

20. Corruption of INF file on adding source files to INF

21. AmiSdl removed space symbol in output for token whose value is a Macro

22. Check for missing Files reports incorrectly after "Update by Label" Operation

23. ROM Layout is not properly generated by AMISDL

24. SIO content is not properly restoring after S3 resume because of AMISDL output

5.004_BuildTools_23

New Features

1. Support for File Override

2. Ability to clear connection cache by AMISVN Alias

3. Generate Files Report and filter by component labels

4. Support for Syntax highlighting

5. ROM Layout output generation support

6. Ability to generate optimized Firmware Volume layout and support for Top Down Allocation

7. Ability to build single Aptio V driver module

Issues Fixed

1. Intel Avoton(5.008_Avoton_0ACBZ015) build failure in BuildTools_22

5.004_BuildTools_22

Issues Fixed

1. [AptioV] If SDL eLink have the token dependency, and the token is not define. We need the token dependence still support "!=" syntax.

2. [AptioV]New style eLink(non-make) , the "InvokeOrder" seems is invalid

3. Veb v.223 incorrectly handles Module Rank property.

4. Need to support module gray out if the module is disable (Same as the Aptio4 Veb).

5. Improve Veb tool : LDEVICE Ps2Kb PnPID = "0303h" will cause WHCK test fail. The fix was verified as part of test version made available to originator

6. Error getting the modules after deleting multiple times in the project using VeB.

7. [AptioV]Needs to generate name mapping to use on ASL file in case AMISDL doesn't assign ACPI device name

8. Build Log is incomplete with VeB 240
9. "Windows Folder" in Linux
10. Strange message during component labeling

5.004_BuildTools_21

New Features

1. Add Scripting ability for VeB Add Component and Update component features
2. Support for highlight current file/module label in History
3. Support to launch multiple VeB instances and connect to AMISVN database simultaneously.
4. Update to VeB labeling process to create single SVN commit instead of two.
5. Support for working with Multiple SVN Mirror databases
6. Performance optimization for AMISVN Source control operations
7. Rename file support in AMISVN source control
8. Support for IO Devices in BIOS parameter wizard to manage existing IODevices in project
9. Option to include validation and stop build process when bridge bus number is not specified in PCI Devices of type HostBridge and its children
10. Support to generate new PCI_TREE Output for APTIO V that mimics Aptio 4 PCI TREE ASL
11. Support for new PCI and SIO output meta-data generating varstore information
12. Support in AMISDL for generating custom output based on a predefined template grammar
13. Change file case by rename option and logging list of file case mismatch during project download.

Issues Fixed

11. VSS Connection from Visual eBIOS for Aptio V doesnt work
12. [Eclipse VeB 223] SDL entry priority incorrect
13. VeB "Undo Check Out ..." doesn't works
14. Add Files to INF misbehaves.
15. "Add Files" to component issues.
16. FD_AREA Size has not effect for standalone modules. Need a way to specify the Standalone FV Size to support ROM_HOLES
17. Problem Occured while close"open project"
18. AptioV veb doesn't popup project source incompleteness error

19. VeB should give a warning message when downloading a project and the path requested has a space.

20. VEB does not see the file with no extension.

21. VEB menu bar mess up

22. -Cannot add file to svn after making the file private.

23. Using "(INT) 5.004_BuildTools_21" (VeB 7.15.0223) cannot build the source code.

24. Trailing spaces in derived SDL token values – Updated the fix provided with 223

25. In an Aptio V project, if a module part with SDL and INF file is added inside a e-Module, then the Module part Master token and the INFComponent token are added in the e-Module's SDL file instead of the Module part's SDL file, and the Module part SDL file is empty.

26. Some files will be missing by using Publish Item in Veb 5.004_BuildTools_20.

27. Issue in Show Difference - If commit is failed then the show difference didn't show any difference for that file

28. Supporting Elinks output into Header File for Aptio V IDE

29. VeB labeling component functionality is incorrect.

30. VEB shows missing files for preprocessed INF files for variables.

31. Meaningless error message in SDL preprocessor

32. Issue in Adding INF Component through Add INF Module, Add Component and Import EDKII.

33. Cannot add the virtual module provided in a zip in the new AptioV

34. Visual eBIOS does not create Customer Project Flavor as it did in Aptio 4

35. "Active" property for RSVCHIPSET SDL entries currently has no effect

36. VEB 180 doesn't recognize the .CIF (Upper char) files.

37. Issue with Segment SDL object - when undefined Segment used in Elink throws Exception

38. Issue with CIF file ordering in .veb file - Sub component rank is not considered when adding a new component and order is not as expected

39. VeB labeling component functionality is incorrect

40. AMISDL produces multiple SIO output when there are multiple SIO modules in the project

41. Changes to Select Item dialog to specify the relative path of the repository in a text field to overcome the blocked path in the middle

42. In a Aptio V project, if a module part with SDL and INF file is added inside a e-Module, then the Module part Master token and the INFComponent token are added in the e-Module's SDL file instead of the Module part's SDL file, and the Module part SDL file is empty.

43. FFS_FILE dialog is not correctly displayed

44. Supporting Elinks output into Header File for Aptio V IDE

45. VEB 7.15.0180 has problems with search (though all versions may)

46. Trailing spaces in derived SDL token values

47. Shift F3 -> Backward search seems not working

48. PCIDEVICE "PciHost (Virtual)" is not getting cloned

49. Incorrect Show History details for newly added Private components to source control and so "Update by Label..." or "Get by Label" operations failed.

50. AptioV veb 223 popup unnecessary warning message.

51. Build->Next Error is available when we open the project

52. Build->Next Error seems misbehaving

53. VEB 7.15.226 Does not allow adding project SVN without creating New project folder.

54. [AptioV][VeB] Module icon style

55. Veb does not restricts user from applying external label to project with internally labeled components

56. Add and Update Component - Implement Update Component functionality

57. [Eclipse VeB 229] Merge fails during "Get component by label"

58. Add and Update Component - UI updates for supporting scripting ability of add/update features

59. Issue with multiple SIO in project

60. Issue opening Bios parameter Wizard and file containing the error reported in log with 7.15.0231

61. AMI SDL / VEB does not support IODEVICE object.

62. No access fail message from AptioV Veb

63. [Aptio V] Token expression cannot be used no more in Aptio5

64. Turn off all annotation types by default

65. Make build process to be stop when pcidevice bridge bus number doesn't assign in SDL.

66. VeB can't display current file/module label in History

67. Token expression cannot be used no more in Aptio5

68. Hot Plug Support in VEB Not working.

69. Container Object NOT working properely

5.004_BuildTools_19

New Features

1. Provided support for TokenASL H output generation in AMISDL (EIP 116966)

2. Included an option "Clear connection data" for AMISVN support to enable the users to clear connection data held in VeB cache

Issues Fixed

1. AptioV VeB sometimes displays .uni files as garbage, and sometimes saves them in incorrect format.
2. Shared files are deleted in certain cases.
3. Multiple Problems at AMIIndia to access SVN. Very Slow, IndiaDomain Access, Port access etc...
4. Application connects to SVN Source control using the previous SVN Alias connected users in the same instance and it modifies the .veb file "SourceControl" field as " SourceControl = "SS: .:" "
5. Wrong module part is selected, while searching in a component
6. Visual eBios 182 Smoke Test Plan
7. Issue with Missing '$' in source control path for components in .veb files
8. Issue with RSVChipset not being overridden
9. Issue with cloning FD_Area SDL objects
10. Fixed issue with Publish component of EDK Compatibility package

5.004_BuildTools_18

New Features

1. Added default support to check for missing files on Project open.

Issues Fixed

1. Fix missing support for Lock and Help for all SDL object.
2. Unknown FFS_FILE object while Master token off.

5.004_BuildTools_17

New Features

1. Included an option in project download to skip the summary page
2. Included speed improvement for Check for latest updates operation in AMISVN

Issues Fixed

1. The error window that pops up on the screen if a file is not found in Source control, pops up behind other windows
2. Container object ACPI tab incorrect behavior - If the container device has ASL file and doesn't have ASL name, then the parent PCI Device (Root for P2P devices) will be verified. If it has

PCIDevice with same attributes as Container and has ASL file and doesn't have ASL name, then the error message will be displayed

3. Publish Issue – Publish component that has no file or sub components but INF referred.

5.004_BuildTools_16

New Features

1. Included speed improvements for Download and check-in operations of AMISVN source control
2. Included support for multiple VeBs to be launched and work with AMISVN simultaneously
3. Included support in AMISVN Check In operation - File name case check in Repository with CIF/INF reference

Issues Fixed

1. After disabling master token, build error occurs on VeB for Aptio V
2. download issue on Veb_7_15_0129
3. Delete Component Issues
4. VeB functionality to order modules when added to a project
5. Add to Source control window looks not proper
6. Alias editing dialog usability issues
7. Wrong file path in the INF Component properties dialog
8. When component is labeled, module part's cif files are modified
9. The new function of "search history" in Aptio 5
10. Issue with adding a new file when the reference project is just created, the flavor CIF file is not available
11. While adding component under another component, INF object can be created in the parent SDL itself. no need to have a separate SDL file for each module part

5.004_BuildTools_15

New Features

1. Included support for updating the source control status for the files only for domain authenticated users.

5.004_BuildTools_14

New Features

1. Feature – Update wizard for EDK packages

5.004_BuildTools_13;

New Features

1. Included Proxy support for RSC source control connection

2. Enable Standard eclipse perspective switch in VeB

3. Included Missing Components download support

4. Included the support for Reload project (Project --> Project Management --> Reload Project…) option

5. Add ability to generate 2 FD sections in FDF file output automatically through SDL

6. Provided Include statements for File Statements in FDF output generation.

7. Included Option ROM design change

8. Included all source control systems support provided by Legacy VeB in Windows version

9. Included SVN Source Control Support

10. Included ASL Output Generation

11. Included PCI and SIO INIT Routine Output Generation

12. Included Speed Improvement on the following operations,

    a. Open Project (Including Source Control optimization)

    b. Bios Parameter Wizard

    c. Explorer Views

    d. Import EDK Wizard

13. Included PCIDevice Enhancement

    a. Fixed Bus Number is made Mandatory for RootBridge type devices

    b. If Slot is selected as Location then Function number will be grayed out and displayed with value 0xFF

    c. In ACPI tab if "Select ASL File" is selected for WAK, PTS or Add in External .asl File, if the user enters the Name alone, then automatically search for the file in the project and set the relative project path. If more than two files with the same Name is there, then Resolve Ambiguity dialog will be popped up.

    d. New Checkbox control "Enable Power Button Notification" required in WAKE, PME Settings

    e. In Resource Tab the Fixed Resource Table is redesigned.

f. Remove Initialize routine Index from Initialize Tab and moved to Misc Tab

14. Included SIODevice Enhancement

 a. Global registers and Local Registers input method is redesigned

 b. Enter and Exit config script control is redesigned

 c. Add ACPI Tab to SIODevice property dialog

15. Included LDevice Enhancement

 a. Add ACPI Tab to SIODevice property dialog

 b. Move controls "Logical Device Has A Setup Question Associated" and "Logical Device Has Implemented" to new Tab Miscellaneous

 c. Remove Initialize Routine Index from Initialize Tab, and moved to Misc Tab.

16. Included the support for Standalone Attribute in FD_AREA,

 a. Add an attribute field to FD_AREA called STANDALONE = YES or NO. Default is "NO".

 b. Change the output so that if STANDALONE is YES, when the fdf file is produced, this FD_AREA object will NOT be included in the FD Section. The FV Section for this object will be included in the fdf file…but it will be excluded from the FD Section.

17. Included preliminary support for Bus view of PCI Tree view.

18. HostBridge can only have a root bridge as a child.

19. For root bridge only host bridge can be a parent

20. Slot device can not be a child of a root bridge

21. SIO device needs a Parent. The parent should be selected from a combobox populated with LpcBridge and IsaBricge devices. In the SDL output the LpcBridgeNum value should be the index of the parent device in the list of PCIDevices (ie record index in PCIData).

22. Message box to pop up when there is an error that causes the SDL Wizard to fail to load... "Failed to load SDL Wizard, see output window for details."

23. Preview version supports only Windows OS

24. Included support for AMI PCI and SIO output generation

25. Included UI support for PCI and SIO wizards

26. Provided preliminary support for PCI tree view

27. Support provided in AMISDL for PCI and SIO objects

28. Support provided in AMISDL for PCI and SIO output generation based on specification

29. Included support for writing the File statements in "!include <File_Statement_Path>" format while generating the FDF File

30. Included support for importing the selected packages

31. Improved Speed while Loading Project

32. Included support for generating DSC outputs based on the target platform architecture

33. Included support for skipping INF Files while packaging.

34. Enhanced import wizard to get INF supported architectures from the sources and binaries sections

35. Included support for Tools chain configuration and Edit Active Config Tab under Project Settings dialog.

36. Included support to display the Alias in the Alias Tab of Tools options dialog in a sorted order.

37. Included support for creating INF File through New Wizard

38. Included support for creating Empty Component for AptioV Projects

39. Included Graphical editor support for ROMLayout Wizard

40. Included support for generating FDF File with respect to the ROMLayout SDL objects

41. Included Support for Importing Aptio4.x Components as Aptio V.

42. Included HelpBuilder Support

43. Included support for SDL wizards

    a. BIOS Parameters Wizard

    b. Kernel Table

    c. Reloading SDL Objects

    d. Generating SDL Outputs

44. Included RSC source control support

45. Support for File Overrides

46. Enhanced import EDK II packages wizard – Every DSC package selected by the user will be imported as an eModule and INF components referred in the DC package will be created as module parts and added under the eModule.

47. Included basic support for Aptio V Projects

    a. Open, Load, Build and Save Aptio V projects

    b. Add/Remove component

    c. Add/Remove Files

    d. Import/Export EDK II modules and packages

48. Included the default DSC build command for a project in VeB Tools -> Options -> DSC Build tab.

49. Option "Capture Build log into output panel" is turned on by default

50. The line number will be reset when the user specifies an invalid line number in the goto line dialog

51. In the bookmark dialog, the Add and delete options will be enabled only when a bookmark is selected.

52. Included Support for EDK II projects as mentioned in the features section

53. Performance and Memory management for the following features are improved

    a. Open Project

    b. Close Project

    c. Select Component wizard, Tools options and Tools customize dialog

54. Following features are added in this version

    a. VeB Customization & Configuration

    b. Intellisense support for C/C++ source files

    c. File Wizard

    d. Project Wizards

    e. Search/Edit Functions

    f. View Customization

    g. Bookmark Functions

    h. Symbol Browsing

    i. Window navigations

55. Workspace is set automatically to user's home directory

56. Added the file explorer

57. Added the logger view support

58. Following operations are added to the module explorer

    a. Open CIF

    b. Add Component

    c. Add Files

    d. Edit parts

    e. Delete Link

    f. Properties

59. Added supports for project load and save

60. Added support for ant build and command line build

61. Added the basic module explorer