

Acer ePower Management: Release Notes

1. Product Release Information

Product Name: Acer ePower Management

Release Number: 2.05.4309

Release Date: February 4, 2008

Customer Support: Jay SJ Chang, Erison Wu, Willy Liao, and Jones Hsu

2. Introduction

This document contains the release notes for Acer ePower Management. The following sections describe the release in detail and provide late-breaking or other information that supplements the main documentation.

3. What's New

- I 2.05.4309 February 4, 2008
 - i. Issue solved
 - 1. Fixed “The CPU, brightness, and graphics power mode (only for NVIDIA) will change to power settings for Energy Star and not restore to original power settings if the user terminate Monitor off stage in 20 seconds”
 - ii. UI/Specification changes
 - None
 - iii. Code reviewed by: Jones Hsu

4. Minimum System Requirements

System Processor: Intel or AMD IA32 processor

System Memory: 512MB+

Free Disk Space: 10MB+

Operating System: Microsoft Windows Vista x86/x64

Networking: None required

Existing Software: .NET Framework 2.0

BIOS Support: ACPI-WMI specification v1.16

Project support: None

5. Installation and Upgrade Notes

- I Installation
 - Run Acer ePower Management installer package to install all necessary binaries.
- I Manifest
 - This release consists of the following items
 - i. Release Note
 - ii. Acer ePower Management

6. Version History

I 2.05.4308 February 1, 2008

- i. Issue solved
 - 1. Fixed the flicker issue at first time when playing when playing HD if push power button to shut the system down directly
 - 2. Fixed the flicker issue that do several behaviors (S3, AC/DC change, power plan change) in the meantime
- ii. UI/Specification changes
 - None
- iii. Code reviewed by: Jones Hsu

I 2.05.4307 January 31, 2008

- i. Issue solved
 - 1. Set Power saver as DC mode default power plan first. When Auto Tune for BD/HD/TV on NV GFX and AC mode, user changes to Power saver by Vista Power Options, and change to DC mode, active power plan may keep change and not stop.
- ii. UI/Specification changes
 - None

I Code reviewed by: Erison Wu

I 2.05.4306 January 25, 2008

- i. UI/Specification changes
 - 1. Change CPU policy to three levels for Intel CPU
 - 2. Change CPU policy of Balanced AC mode to "Maximum" for Celeron M
 - 3. Phase in new solution for S3/S4 performance issue. Please note that this solution will extend the Energy Star timer to 20 seconds. i.e. When monitor is off, ePower will wait 20 seconds and then do Energy Star.
- ii. Code reviewed by: Erison Wu

I 2.05.4305 January 15, 2008

- i. UI/Specification changes
 - 1. When playing BD/HD/TV and change to power saver DC mode, wireless connection detection dialog will not pop-up.
- ii. Code reviewed by: Erison Wu

I 2.05.4304 December 20, 2007

- i. Issue solved
 - 1. Fix the issue that AC/DC change when switch user account
- ii. UI/Specification changes
 - 1. For NVIDIA GFX platforms and play BD/HD-DVD/TV on "Power saver", ePower will switch to "High Performance" before Auto Tune.
 - 2. Disable NVIDIA ADC when playing BD/HD-DVD/TV and enable ADC when stopping.
 - 3. Add solution for S3/S4 time issue
 - 4. Phase in the solution for boot and ready time.
 - 5. Change USB selective suspend policy. For each power plan, AC is disabled and DC is enabled
- iii. Code reviewed by: Erison Wu

I 2.05.4303 November 28, 2007

- i. Issue solved
 - 1. [0125] Auto dimmer works in AC mode on Pantanal-30 with VB SP1.
- ii. Code reviewed by: Erison Wu
- iii. Remaining issues
 - 1. Does not support the device control for Webcam and TV Tuner
- I 2.05.4302 November 16, 2007
 - i. ePower_DMC
 - 1. Phase in the solution that enables LAN before reboot and shutdown for Broadcom LAN model.
 - 2. Change CPU policy for SP1
 - 3. Add back Media Player and Media Center support for Auto Tune
 - ii. BackupPwrProf
 - 1. Change CPU policy for SP1
 - iii. Code reviewed by: Erison Wu
 - iv. Remaining issues
 - 1. Does not support the device control for Webcam and TV Tuner
- I 2.05.4301 September 21, 2007
 - i. ePower_DMC
 - 1. Handle the IPC exception whenever ePower_DMC calls ePower service's functions
 - 2. [BUG 0119] "Auto Tune" cannot work on Vista SP1.
 - ii. ePower_UI
 - 1. Handle the IPC exception whenever ePower_UI calls ePower service's functions
 - iii. Installer
 - 1. Set ePower service's "Recover" action as "Restart the service" for first failure and second failure.
 - 2. [BUG 0118] "Auto Dimmer" cannot work on Vista SP1. Installer should bundle new SysHook.dll.
 - iv. Code reviewed by: Erison Wu, Jones Hsu
 - v. Remaining issues
 - 1. Does not support the device control for Webcam and TV Tuner
- I 2.05.4300 September 11, 2007
 - i. ePower_DMC
 - 1. Remove the following timers to lower idle CPU usage:
 - (a) Timer for Enhanced features.
 - (b) Timer for detecting MobileMark.
 - 2. Auto Tune will only support PowerDVD and Arcade.
 - 3. There is limitation for Auto Dimmer: If there is top-most window with administrator privilege (ex: IE7, Task Manager, Registry Editor...etc), Auto Dimmer will not take action while screen saver is activated.
 - ii. Service
 - 1. Service will handle OnShutdown event to fix unresponsive service issue.
 - iii. Code reviewed by: Erison Wu, Jones Hsu
 - iv. Remaining issues
 - 1. Does not support the device control for Webcam and TV Tuner

I 2.05.4020 September 7, 2007

- i. Install shield
 - 1. Update UI component "acer.empowering.windows.forms.dll" to version 2.0.27.0 to fix the following issue: On non-support language, wireless is connected to access point, switch to Power saver DC mode, then "Yes" and "No" buttons text on wireless connection detection dialog will be empty string.
- ii. Code reviewed by: Erison Wu
- iii. Remaining issues
 - 1. Does not support the device control for Webcam and TV Tuner

I 2.05.4019 August 22, 2007

- i. ePower UI
 - 1. 3G function cannot be applied
- ii. BackupPwrPlan
 - 1. After uninstalling ePower and recovering to Vista default, all plans will be Acer's default.
- iii. Code reviewed by: Erison Wu
- iv. Remaining issues
 - 1. Does not support the device control for Webcam and TV Tune

I 2.05.4018 July 24, 2007

- i. ePower_DMC
 - 1. Change SysHook.dll to fix the bug that enter Doze mode when user keeps browsing website by IE7
 - 2. Will check power status when receiving Vista brightness setting change event to prevent ePower save the value to wrong power mode
 - 3. Move the code that save AC/DC default power plan before processing power plan change
 - 4. Check AC/DC default power plan when ePower_DMC starts up
 - 5. Add flag to prevent pop up multiple "Close wireless antenna confirm" dialog when AC/DC change many times and user does not close the dialog
 - 6. Fix the issue that ePower does not change CPU and GPU when Auto Tune for HD DVD on DC mode
- ii. Help file
 - 1. Remove CardBus and 1394 description from help files
- iii. Code reviewed by: Erison Wu
- iv. Remaining issues
 - 1. Does not support the device control for Webcam and TV Tuner, and 3G

I 2.05.4017 July 6, 2007

- i. ePower_DMC
 - 1. ePower will not support ATI M72 , M74 , M76 powerplay control. On such platform, there will be no VGA Graphic control item on ePower UI
 - 2. If ATI VGA is more than 3 levels, ePower will not control powerplay. On such platform, there will be no VGA Graphic control item on ePower UI
 - 3. While Arcade is playing TV, ePower should apply autotune settings as HDDVD
- ii. UI

1. When switch power source but not change setting, the saving confirmation dialog should not pop up after closing main UI
 - iii. Help file
 1. Modify the wording of CPU policy and Graphic control
 - iv. Code reviewed by: Erison Wu
 - v. Remaining issues
 1. Does not support the device control for Webcam and TV Tuner, and 3G
- I 2.05.4016 June 14, 2007
- i. ePower_DMC
 1. Remove unnecessary code (DMC_Lite Form, NotifyIcon component, UpdateSchemeInfo function, IsAcerPlatform function, some functions of VGA class)
 2. Fix the bug that ePower enter Doze mode after resume from a long time S3/S4. (ePower will kill timer before entering S3/S4)
 3. Fix the bug that can not read Enhanced features registry on X64 platform.
 4. Change the detection of Enhanced feature registry. (Only set registry to "0" can disable Enhanced features)
 5. Remove 1394 and CardBus control for all projects. 1394 and cardbus will no longer display on UI.
 6. Add backdoor for CableSense.
 7. Turn off the trap function for MobileMark.
 - ii. UI
 1. If there is no battery present, "Battery remaining" label of "Battery Information" dialog will show "AC only".
 2. Fix the bug that saving confirmation dialog does not pop up when user changes settings and closes ePower UI.
 3. Fix the bug that there is no space between "hour" and minute in combobox of LCD off timer
 4. Fix the bug that UI can multiple launch help file when location is different from native language of OS.
 - iii. Widget
 1. While AC only, widget will show the wording in wrong location.
 - iv. Help file:
 1. Shorten CPU speed and graphic power mode wordings. (Not all languages)
 - v. CompileMof
 1. Detect WMI instance existence by checking GetLANConnectStatus method instead of checking registry.
 - vi. Install Shield
 1. Installer will not copy acpimof.dll to C:\Windows\System32\
 2. Installer will not write Enhanced feature registry
 - vii. Code reviewed by: Erison Wu , Christian Huang
 - viii. Remaining issues
 1. Does not support the device control for Webcam and TV Tuner, and 3G
- I 2.05.4015 June 01, 2007
- i. ePower_DMC
 1. FIX: While exiting Doze mode, ePower does not restore VGA setting

2. FIX: Add exception handling while enable or disable C4onC3
 3. FIX: ePower should not run on domain guest account.
 4. MODIFY: ePower will clear the registry flag of Enhanced functions while start up.
 5. MODIFY: ePower should base on CPU and VGA type to set registry value for CPU and VGA while user click “restore” or log on new user account.
- ii. UI
 1. FIX: Show wrong graphics power mode setting on nVidia DC mode and ATI 2 levels GFX.
 - iii. BackupPwrPlf:
 1. MODIFY: Write default minimum and maximum processor state according to CPU type
 - iv. Install Shield
 1. MODIFY: According to new eAP’s rule, installer should not launch ETF bar after silent upgrade.
 - v. Code reviewed by: Erison Wu
 - vi. Remaining issues
 1. Does not support the device control for Webcam and TV Tuner, and 3G

I 2.05.4014 May 16, 2007

- i. ePower_DMC
 1. MODIFY: ePower will not do the detection for ATI M7x series. It will support ATI PowerPlay control as before.
 2. MODIFY: For Guest account, ePower will leverage ETF’s message box instead of showing ePower’s message box.
- ii. Install Shield
 1. MODIFY: Take out Repair/Modify/Remove dialog, if user clicks “Uninstall”, ePower installer will uninstall directly.
- iii. Code reviewed by: Erison Wu
- iv. Remaining issues
 1. Does not support the device control for Webcam and TV Tuner, and 3G

I 2.05.4013 May 15, 2007

- i. ePower_DMC
 1. MODIFY: ePower will not support ATI PowerPlay control on the following platforms:
 - (a) ATI M7x series
 - (b) Power modes that support more than 3 levels.
 2. MODIFY: Get NVIDIA graphic power setting on DC mode incorrectly.
 3. MODIFY: Change power source before resuming from S3/S4, ePower sometimes change power plan incorrectly.
 4. MODIFY: For Guest account, ePower will pop up a messagebox to notify user that ePower do not support Guest account. After closing this message box, ePower will self-terminate.
 5. MODIFY: Add back door registry to enable or disable VGA control. The registry is enabled as default. Change all back door registry location to Local Machine.

- ii. ePower_UI
 - 1. FIX: User can launch multiple ePower help files, and some pages cannot display normally in some languages.
 - 2. FIX: User changes display and sleep timer and clicks “Apply” button, ePower_UI should not pop up power plan save confirmation message box
- iii. BackupPwrPfl
 - 1. MODIFY: BackupPwrPfl will not set default value to the following ATI platforms:
 - (a) ATI M7x series
 - (b) Power mode that support more than 3 levels.
- iv. Install Shield
 - 1. FIX: Cannot upgrade ePower by Acer Launch. New installer will kill ePower_DMC process before upgrading instead of send message to close ePower_DMC.
- v. Code reviewed by: Erison Wu
- vi. Remaining issues
 - 1. Does not support the device control for Webcam and TV Tuner , and 3G
- I 2.05.4012 April 26, 2007
 - i. ePower_DMC
 - 1. FIX: When enter Auto Tune and change power plan, ePower will switch between the two power plans repeatedly
 - 2. MODIFY: Add back door registry to enable / disable enhanced features that include Auto Tune, Auto Dimmer, Doze mode and Energy Star. These registry are enabled as default.
 - 3. FIX: ePower will only activate one enhanced feature at the same time to prevent interfere with other features.
 - ii. Code reviewed by: Erison Wu
 - iii. Remaining issues
 - 1. Does not support the device control for Webcam and TV Tuner , and 3G
- I 2.05.4011 April 24, 2007
 - i. InstallShield
 - 1. FIX: ePower will be terminated if user click “Cancel” button in “Modify/Repair/Remove” page. Installer shouldn’t close ePower_DMC at that time.
 - ii. ePower_DMC
 - 1. MODIFY: Add back NVIDIA graphic power mode control.
 - iii. ePower UI
 - 1. FIX: If user enters special Display or Sleep timer (ex. 123 minutes) in Advanced settings dialog of Power Options, ePower UI will pop up error message.
 - 2. FIX: For NVIDIA graphic power mode, the combo-box index mapping is wrong.
 - iv. ePower Service
 - 1. FIX: For non-Broadcom LAN, service return wrong status of CableSense support. It should check the error code of WMI function.
 - 2. FIX: Cannot get PCI information on Wistron platform.

- v. CompileMOF
 - 1. MODIFY: Modify class name for ePresentation hot-plug part.
- vi. Remaining issues
 - 1. Does not support the device control for webcam, TV Tuner and 3G
- I 2.05.4010 April 17, 2007
 - i. Install shield
 - 1. FIX: While uninstalling, install shield will only send one message to notify ePower and enable LAN / 1394 / Cardbus.
 - ii. ePower_DMC
 - 1. MODIFY: While ePower launches, ePower should enable LAN driver if cable is connected, otherwise disable.
 - 2. MODIFY: While uninstalling, ePower should enable LAN .
 - 3. MODIFY: While initializing or switch aero glass , ePower should hide.
 - 4. MODIFY: ePower will close itself in guest account
 - iii. Code reviewed by: Erison Wu
 - iv. Remaining issues
 - 1. Does not support the device control for Webcam and TV Tuner , and 3G
- I 2.05.4009 April 12, 2007
 - i. ePower UI
 - 1. FIX: On English platform, some wordings on “Battery Information” dialog are wrong language.
 - ii. ePower_DMC
 - 1. MODIFY: Take out NV GFX power mode control because NV’s API DLL support this function, but current NV driver does not support this function.
 - iii. Code reviewed by: Erison Wu
- I 2.05.4008 April 11, 2007
 - i. ePower UI
 - 1. MODIFY: While applying scheme change from UI, UI will only activate new power plan and will not try to control the settings of all devices.
 - ii. ePower_DMC
 - 1. MODIFY: While exiting Auto tune mode, ePower will set wring value to PCIE settings.
 - 2. MODIFY: While ePower try to set CPU speed and activate power plan, ePower will not get GUID from OS again.
 - 3. MODIFY: In DC and power saver plan, ePower will not disable aero glass.
 - 4. MODIFY: While changing power plan, ePower can not correctly control VGA power settings.
 - 5. MODIFY: While ePower receive the message of changing brightness setting from Vista, ePower will not send message to notify UI.
 - 6. MODIFY: While ePower receives the power status change event, ePower will try to activate the scheme settings to prevent ePower can not receive power scheme change event from OS.
 - 7. MODIFY: Fix an error of VGA settings while restore default settings.
 - iii. Remaining issues

1. Does not support the device control for Webcam and TV Tuner.
2. 3G, PCI Device ID, Brightness control by Windows' WDDM, and Broadcom cable-sense, need BIOS support.

iv. Code reviewed by: Erison Wu

I 2.05.4007 April 9, 2007

- i. InstallShield
 1. MODIFY: In upgrade mode, the power plan settings can be upgraded as new version.
- ii. ePower_DMC
 1. MODIFY: While active power plan, ePower does not set LCD brightness settings to Vista.
 2. MODIFY: While LCD brightness is changed by Vista, ePower should save the modified LCD brightness to registry.
 3. Simplify the actions while setting LAN device.
- iii. Remaining issues
 1. Does not support the device control for Webcam and TV Tuner.
 2. 3G, PCI Device ID, Brightness control by Windows' WDDM, and Broadcom cable-sense, need BIOS support.

iv. Code reviewed by: Erison Wu

I 2.05.4006 March 29, 2007

- i. UI/Specification changes
 1. MODIFY: "Search and Indexer" in "Balanced" power plan as "Power Saver" in DC mode.
 2. Add the processor policy for Intel Celeron M CPU.
- ii. BackupPwrPfl
 1. Add "VideoBrightness" for power plan "Balanced", "Power Saver" and "High Performance".
- iii. Services
 1. MODIFY: Fix an issue: get device status of CabelSense, it always returns false.
- iv. ePower_DMC
 1. . MODIFY: In Celeron platform, ePower will not control 1394 and cardbus devices.
 2. MODIFY: Fix an issue: ePower will initial LAN status after launched and check the status while resume from S3/S4.
 3. MODIFY: ePower will synchronize the LCD brightness setting with Vista power management and mobility center
 4. MODIFY: ePower will synchronize sleep timer and LCD off timer with Vista power management
- v. Remaining issues
 1. Does not support the device control for Webcam and TV Tuner.
 2. 3G, PCI Device ID, Brightness control by Windows' WDDM, and Broadcom cable-sense, need BIOS support.

vi. Code reviewed by: Erison Wu

I 2.05.4005, March 5, 2007

- i. UI/Specification changes

1. MODIFY: With ETF v2.5.4002, ePower UI is incorrect.
 - ii. ePower_DMC
 1. ADD: Support Acer VCM notification to auto-tune.
 - iii. Remaining issues
 1. Does not support the device control for Webcam and TV Tuner.
 2. 3G, PCI Device ID, Brightness control by Windows' WDDM, and Broadcom cable-sense, need BIOS support.
 - iv. Code reviewed by: Erison Wu
- I 2.05.4004, March 2, 2007
- i. UI/Specification changes
 1. ADD: Aspire type scheme
 2. MODIFY: remove DPST of Intel control
 - ii. Remaining issues
 1. Does not support the device control for Webcam and TV Tuner.
 2. 3G, PCI Device ID, Brightness control by Windows' WDDM, Broadcom cable-sense, and Intel DPST need BIOS support.
 - iii. Code reviewed by: Erison Wu
- I 2.05.4003, February 15, 2007
- i. ePower_DMC
 1. MODIFY: Fix a bug while getting PCI device information from WMI
 2. MODIFY: While initializing, ePower will verify if device data of this platform is created in ePower_DMC, if not, ePower will try to get PCI device information by WMI.
 3. MODIFY: Add a new message for reporting status of cable sense to UI
 4. MODIFY: Support Acer WMI Design Specification for eApplications V0.9 (3G , cable sense event)
 - ii. UI/Specification changes
 1. MODIFY: Update the battery icon immediately, when power status is changed.
 2. ADD: Cable Sense is enabled; LAN device on UI does not show.
 - iii. Default Power Plan:
 1. ISSUE: The USB settings do not be backup and restored.
 2. ISSUE: The search indexer does not be backup, restored, and set default.
 3. ISSUE: If the power mode is not three levels with ATI graphic card, the default value in default power plan is not correct.
 - iv. Known issue:
 1. DPST can't not set maximum performance
 - v. Remaining issues
 1. Does not support the device control for Webcam and TV Tuner.
 2. 3G, PCI Device ID, Brightness control by Windows' WDDM, Broadcom cable-sense, and Intel DPST need BIOS support.
 - vi. Code reviewed by: Erison Wu
- I 2.05.4002, February 9, 2007
- i. ePower_DMC
 1. MODIFY: Auto-tune settings based on ePower PES 1.01.
 - ii. Service

1. ADD: 10 level brightness control with WDDM
 - iii. UI/Specification changes
 1. MODIFY: The brightness is 10 level with WDDM
 2. MODIFY: The wording of the Max and Min on 10-level brightness are “Maximum” and “Minimum”.
 - iv. Known issue:
 1. If the power mode is not three levels, the default value in default power plan is not correct.
 2. DPST can't not set maximum performance
 - v. Remaining issues
 1. Does not support the device control for Webcam and TV Tuner.
 2. 3G, PCI Device ID, Brightness control by Windows' WDDM, Broadcom cable-sense, and Intel DPST need BIOS support.
 - vi. Code reviewed by: Erison Wu
- I 2.05.4001, February 7, 2007
- i. ePower_DMC
 1. MODIFY: While identifying device data, ePower will get PCI device data by WMI if the platform data is not created in the data base
 2. MODIFY: While playing PowerDVD, ePower will enter auto-tune mode.
 3. MODIFY: In new user account, ePower_DMC have to check the registry of default power plan while initializing.
 - ii. Service
 1. MODIFY: In 64-bit system, service does not be installed.
 2. MODIFY: If system does not support WDDM, the brightness control does not work
 - iii. UI/Specification changes
 1. MODIFY: Remove Pin and Battery icon from combo box, and add an icon battery\pin beside combo box.
 2. MODIFY: change the icon of add power plan
 3. MODIFY: In 64-bit system, UI can not startup.
 - iv. Remaining issues
 1. Does not support the device control for Webcam and TV Tuner.
 2. 3G, PCI Device ID, Brightness control by Windows' WDDM, Broadcom cable-sense, and Intel DPST need BIOS support.
- Code reviewed by: Erison Wu
 - 2.05.4000, February 2, 2007
 - i. ePower_DMC
 1. VGA power management (Intel , ATI, NVidia)
 2. Cable sense for Broadcom
 3. 3G control
 4. Get PCI device data by WMI
 5. Energy star solution
 6. Auto tune for PowerDVD , Arcade (DVD , HDDVD , BD , TV))
 7. Support AC / DC default power plane
 - ii. Service
 1. Add 3G , Cable sense , PCI device data control

- iii. UI/Specification changes
 1. MODIFY: Change Power Saving Mode of Wireless Adapter Settings in DC mode of Power Saver plan from Maximum Power Saving to Medium Power Saving.
 2. Modify: Sleep time and Display turn off time are modified to meet the energy star requirement.
 3. ADD: Graphic power mode support.
 4. ADD: Default DC/AC power plan icon on combo box of power plan.
 5. ADD: 3G device.
- iv. Remaining issues
 1. Does not support the device control for Webcam and TV Tuner.
 2. 3G, PCI Device ID, Brightness control by Windows' WDDM, Broadcom cable-sense, and Intel DPST need BIOS support.
 3. Power on demand for media playing needs new version of PowerDVD and Arcade.
- v. Code reviewed by: Erison Wu

I 2.05.3007, January 10, 2007

- i. UI/Specification changes
 1. MODIFY: Change Power Saving Mode of Wireless Adapter Settings in DC mode of Power Saver plan from Maximum Power Saving to Medium Power Saving
- ii. Remaining issues
 1. Does not support the device control for Webcam, 3G Card and TV Tuner.
 2. Code reviewed by: Erison Wu

I 2.05.3006, January 02, 2007

- i. Service
- ii. ePower_DMC
 1. MODIFY: Add AERO Glass control. On AC mode, enable AERO Glass. On DC mode, disable AERO Glass for "Power Saver" power plan.
- iii. UI/Specification changes
 1. MODIFY: Change the LCD brightness default setting in AC mode to 100 for "Balanced" power plan.
 2. MODIFY: Change the naming for AMD CPU speed to Maximum, High and Low.
 3. MODIFY: PCI-E settings in AC for Balanced -> Change to Moderate Power Savings from Off. PCI-E settings in DC for Balanced -> Change to Maximum Power Savings from Moderate Power Saving
 4. MODIFY: Change the default display off timeout in DC to 30 minutes for High Performance
 5. MODIFY: Add USB settings: Set High Performance in AC to Disabled. Set others to Enabled
- iv. InstallShield
 1. MODIFY: Change the default settings of LCD brightness to 100 in AC mode of balanced power plan.

- v. Help File
 - None
- vi. New platform
 - None
- vii. Remaining issues
 - 1. Does not support the device control for Webcam, 3G Card and TV Tuner.
- viii. Code reviewed by: Erison Wu
- I 2.05.3005, December 01, 2006
 - i. Service
 - 1. MODIFY: In OnStart function, add waiting 5 seconds for checking MOF registry and WMI status
 - ii. ePower_DMC
 - 1. FIX: ePower_DMC form will show in taskbar a short time after logon on Windows on low-end machine.
 - iii. UI/Specification changes
 - None
 - iv. InstallShield
 - None
 - v. Help File
 - None
 - vi. New platform
 - None
 - vii. Remaining issues
 - 1. Does not support the device control for Webcam, 3G Card and TV Tuner.
 - viii. Code reviewed by: Jay SJ Chang
- I 2.05.3004, November 23, 2006
 - i. Service
 - 1. FIX: After Vista upgrading, the WMI of ePower is removed.
 - ii. ePower_DMC
 - 1. FIX: ePower_DMC form will show in taskbar a short time after logon on Windows on one Grapevine machine.
 - iii. UI/Specification changes
 - 1. FIX: Change power plan from widget will take long time sometimes.
 - iv. InstallShield
 - 1. FIX: In un-installing, user presses cancel, the ePower service is moved.
 - v. Help File
 - 1. FIX: In FR, in the tile of second page “ePower Management”, there is no space between “ePower” and “Management”.
 - vi. New platform
 - None
 - vii. Remaining issues
 - Does not support the device control for Webcam, 3G Card and TV Tuner
- I 2.05.3003, November 20, 2006
 - i. Service
 - None
 - ii. ePower_DMC

1. MODIFY: ePower will pop up MessageBox dialog to ask user when turn off the associated wireless antenna. This version will set the MessageBox dialog always on top.
 - iii. UI/Specification changes
 - None
 - iv. InstallShield
 - None
 - v. Help File
 - None
 - vi. New platform
 - None
 - vii. Remaining issues
 - Does not support the device control for Webcam, 3G Card and TV Tuner.
- I 2.05.3002, November 17, 2006
- i. Service
 - None
 - ii. ePower_DMC
 1. MODIFY: Add detection of PowerDVD and Arcade for Auto Tune.
 - iii. UI/Specification changes
 - None
 - iv. InstallShield
 1. FIX: Default CPU speed settings are not correct.
 - v. Help File
 - None
 - vi. New platform
 - None
 - vii. Remaining issues
 - Does not support the device control for Webcam, 3G Card and TV Tuner
- I 2.05.3001, November 15, 2006
- i. Service
 - None
 - ii. ePower_DMC
 - None
 - iii. UI/Specification changes
 1. FIX: In TC and SC, ePower calls help file of En version.
 - iv. InstallShield
 - None
 - v. Help File
 - None
 - vi. New platform
 - None
 - vii. Remaining issues
 - Does not support the device control for Webcam, 3G Card and TV Tuner
- I 2.05.3000, November 12, 2006
- i. Service
 - None

- ii. ePower_DMC
 - 1. FIX: Device data of LAN are wrong on Ness2 platform.
 - 2. FIX: Add check for GetWirelessUsage() function
 - 3. MODIFY: Change CPU speed SPEC
 - 4. MODIFY: Revise device data for Cheela, Garda3, and Coniston platform.
 - 5. FIX: Show wrong device status when device is off.
 - iii. UI/Specification changes
 - 1. FIX: ePower does not update status after pulling out battery.
 - 2. FIX: Auto Tune does not work sometimes for Windows Media Player.
 - 3. FIX: Some texts on Create Power Plan dialog are bigger on 120 DPI.
 - iv. InstallShield
 - 1. FIX: Remove ePower by ETF, some registry keys do not be removed.
 - 2. FIX: Add 64-bit format .Net dll files in WMI service.
 - 3. FIX: Sometimes, after maintaining, power UI does not be launched.
 - v. Help File
 - 1. MODIFY: Fix the size and position of help presented.
 - vi. New platform
 - 1. Add Prespa M platform.
 - vii. Remaining issues
 - 1. Does not support the device control for Webcam, 3G Card and TV Tuner.
- I 2.05.2005, November 07, 2006
- i. Service
 - 1. Service sometimes startup failed when Windows boots up
 - ii. ePower_DMC
 - 1. FIX: CPU speed adjustment shows the same speed for plug in and battery mode on the OS power option
 - 2. MODIFY: Disable “Doze Mode” when user executes Windows Media Player, PowerDVD, MCE and Arcade. Enable “Doze Mode” after user closes all the above applications.
 - iii. UI/Specification changes
 - 1. FIX: Add lock mechanism to prevent ETF gets empty AppHoverImage
 - 2. MODIFY: Disable hybrid sleep in each power plan settings.
 - iv. InstallShield
 - 1. FIX: Silent uninstall does not remove registry key
 - v. Help File
 - 1. Some pages of help file spend too much time to show information
 - vi. New platform
 - None
 - vii. Remaining issues
 - 2. Does not support the function for graphics power mode.
 - 3. Does not support the device control for Webcam, 3G Card and TV Tuner.
- I 2.05.2004, October 23, 2006
- i. Service
 - None
 - ii. ePower_DMC
 - None

- iii. UI/Specification changes
 - 1. FIX: Battery information dialog pops up error message.
 - 2. FIX: 1394 setting is present while there is no 1394 port
 - 3. MODIFY: Change AMD CPU speed text to “High”, “Medium” and “Low”
 - 4. MODIFY: Do not gray out the icon of device when turning off device
 - 5. MODIFY: Add tooltip for “Create” and “Delete” button.
 - 6. MODIFY: Change some Chinese wording.
- iv. InstallShield
 - 1. After installed, launching ETF, or power UI does not be executed
 - 2. In 64-bits system, the shortcut of start menu does not be created
- v. New platform
 - None
- vi. Remaining issues
 - 1. Does not support the function for graphics power mode.
 - 2. Does not support the device control for Webcam, 3G Card and TV Tuner.
- I 2.05.2003, October 05, 2006
 - i. Service
 - None
 - ii. ePower_DMC
 - None
 - iii. UI/Specification changes
 - 1. MODIFY: Remove low capacity setting UI of “Graphic Power Mode”.
 - 2. MODIFY: Add message box to confirm user’s decision when user clicks “Restore” button.
 - iv. InstallShield
 - MODIFY: Upgrade/Slient Upgrade
 - v. New platform
 - None
 - vi. Remaining issues
 - 1. Does not support the function for graphics power mode.
 - 2. Does not support the device control for Webcam, 3G Card and TV Tuner.
- I 2.05.2002, September 25, 2006
 - i. Service
 - 1. FIX: In French, German, Spanish, service throws exception
 - ii. ePower_DMC
 - 1. MODIFY: Set “authorizedGroup” for IpcChannel properly.
 - 2. FIX: Launch wrong help file when in TC and SC language
 - iii. UI/Specification changes
 - 1. MODIFY: Change the label text of “Display” and “Sleep” timer.
 - 2. MODIFY: Add multi-language for “Restore” button.
 - 3. MODIFY: Add multi-language for name and description of default power plan.
 - iv. InstallShield
 - 1. Modify: Silent install/uninstall.
 - v. New platform
 - None

- vi. Remaining issues
 1. Does not support the function for graphics power mode.
 2. Does not support the device control for Webcam, 3G Card and TV Tuner.
- I 2.05.2001, September 18, 2006
 - i. Service
 - None
 - ii. ePower_DMC
 1. FIX: Pop error message box when run ePower_DMC because the device data of Navarro is wrong.
 - iii. UI/Specification changes
 1. MODIFY: Add multi-language support.
 2. MODIFY: Change UI for device On/Off and Create/Delete power plan.
 3. MODIFY: Add Acer default power plan setting
 - iv. InstallShield
 1. MODIFY: Add multi-language support
 - v. New platform
 - None
 - vi. Remaining issues
 1. Does not support the function for graphics power mode.
 2. Does not support the device control for Webcam, 3G Card and TV Tuner
- I 2.05.2000, September 11, 2006
 - i. Service
 1. Build ePowerSvc.exe and WMIIInterface.dll for x64 platform.
 - ii. ePower_DMC
 1. Rebuild ePower_DMC.exe, SysHook.dll and wlan.dll for x64 platform..
 2. FIX: Many ePower_DMC in Task Manager.
 - iii. UI/Specification changes
 1. Rebuild ePower_UI.dll, PowerApiDll.dll, ePM_Widget.dll and ePMWidget.dll for x64 platform..
 2. FIX: Save changed setting before leaving doesn't work.
 3. FIX: User changes CPU speed too fast since UI looks like that changing power plan has finished.
 4. FIX: Fail to display the power plan with very long name
 5. MODIFY: Add "Restore" button for restoring the default settings of power plan.
 6. Use new TabControlEx component to fix the strange tab issue.
 - iv. InstallShield
 1. Build BackupPwrPfl.exe for x64 platform.
 2. Support 64-bit platform.
 - v. New platform
 - None
 - vi. Remaining issues
 1. Does not support the function for graphics power mode.
 2. Does not support the device control for Webcam, 3G Card and TV Tuner
- I 2.05.1001, September 04, 2006
 - i. Service

- None
 - ii. ePower_DMC
 - None
 - iii. UI/Specification changes
 - 1. FIX: When uninstalling ePower, ePower_DMC will pop "ePower_DMC.exe has stop working" message.
 - iv. InstallShield
 - None
 - v. New platform
 - None
 - vi. Remaining issues
 - 1. Does not support the function for graphics power mode.
 - 2. Does not support the device control for Webcam, 3G Card and TV Tuner.
- I 2.05.1000, August 18, 2006
- i. Service
 - None
 - ii. ePower_DMC
 - 1. Remove some UI control to speed up the InitializeComponent function
 - 2. FIX: Pop "CreateFileMapping error" message from SysHook.dll
 - iii. UI/Specification changes
 - 1. FIX: User can create power plan by type white space
 - 2. FIX: Duplicated case-insensitive profile name is allowed
 - 3. MODIFY: Use TabControlEx control instead of TabControl control.
 - iv. InstallShield
 - 1. FIX: After moving data, if ePowe_DMC does not be launched, the setup process waits forever, and can not finish.
 - 2. MODIFY: Replace the icon of setup file with extra large icon
 - v. New platform
 - None
 - vi. Remaining issues
 - 1. Does not support the function for graphics power mode.
 - 2. Does not support the device control for Webcam, 3G Card and TV Tuner.
- I 2.05.0008, August 11, 2006
- i. Service
 - None
 - ii. ePower_DMC
 - 1. Use new wlan.dll built by Jade.
 - iii. UI/Specification changes
 - 1. FIX: Unexpected error message pops up when turning off wirelss LAN
 - 2. FIX: "Apply" button is enabled when switching power plan in the non-active power mode
 - 3. MODIFY: After choosing power plan, ePower will switch to active tab.
 - 4. MODIFY: Add tooltip for battery information button.
 - iv. InstallShield
 - None
 - v. New platform

None

vi. Remaining issues

1. ETF crashes when uninstalling ePower
2. Does not support the function for graphics power mode.
3. Does not support the device control for Webcam, 3G Card and TV Tuner.
4. Could not load WMInterface.dll because the file disappear inexplicably

I 2.05.0007, August 04, 2006

i. Service

None

ii. ePower_DMC

None

iii. UI/Specification changes

1. MODIFY: User can also click “Create a power plan” and “Delete this plan” label
2. FIX: Save changes dialog does not always appear
3. FIX: Change display and sleep timer and apply, it does not really work.

iv. InstallShield

1. FIX: Wrong wording when installer detects that ETF doesn't be installed.

v. New platform

None

vi. Remaining issues

1. ETF crashes when uninstalling ePower
2. Does not support the function for graphics power mode.
3. Does not support the device control for Webcam, 3G Card and TV Tuner.
4. Could not load WMInterface.dll because the file disappear inexplicably

I 2.05.0006, July 28, 2006

i. Service

1. FIX: Enable device is unworkable via ePower
(a) Solution: Call SetupDiCallClassInstaller() function for DICS_FLAG_GLOBAL scope

ii. ePower_DMC

1. MODIFY: Extend the timer that check whether ePower service is ready to 2 minutes

iii. UI/Specification changes

1. MODIFY: “Apply” button is only disabled when current power plan is active and current tab is not the same as current power source.
2. MODIFY: “Delete this plan” label will be gray when “Delete” icon is disabled.
3. MODIFY: Widen the main UI and use new icons.

iv. InstallShield

1. FIX: Strange wording and behavior in “Modify” mode.
2. FIX: Inconsistent publisher name in “Programs and features” control panel.
3. FIX: ETF doesn't be launched when ePower is uninstalled successfully.
4. FIX: The power plan created by user will still exist after uninstalling ePower
5. Default power plan is not “Balanced” after installing ePower

- v. New platform
None
- vi. Remaining issues
 - 1. ETF crashes when uninstalling ePower
 - 2. Does not support the function for graphics power mode.
 - 3. Does not support the device control for Webcam, 3G Card and TV Tuner.

I 2.05.0005, July 21, 2006

- i. Service
 - 1. FIX: IsAcerPlatform() function fail
(a) Solution: Add code to connect to CIMV2 namespace..
- ii. ePower_DMC
None
- iii. UI/Specification changes
 - 1. MODIFY: Add function for create and delete power profile.
 - 2. MODIFY: Add display timer and sleep timer settings
 - 3. MODIFY: Change graphics power mode settings to three power levels
- iv. InstallShield
None
- v. New platform
None

I 2.05.0004, July 14, 2006

- i. Service
 - 1. None
- ii. Tray icon
 - 1. FIX: ePower will restore wrong settings in Auto tune if AC/DC power source changes and power plan changes
(a) Solution:
 - 1) Restore settings before AC/DC power source changes and power plan changes
 - 2. FIX: Pop-up error message box about writing CPU max value when resume from S3/S4.
(a) Solution:
 - 1) Remove the code for setting CPU speed when resume from S3/S4
- iii. UI/Specification changes
 - 1. FIX: Choose non-active power scheme, click "On Battery" tab and then click "Plugged In" tab, "Apply" button does not enable.
(a) Solution:
 - 1) Enable "Apply" button by checking power source.
 - 2. FIX: Verify the issue that PowerEnumerate() function will fail on Vista build 5456. This issue is caused by different SDK version(5384 and 5456)
(b) Solution:
 - 1) Use SDK 5456 to build the file.
- iv. InstallShield
 - 1. Modify for new installer behavior.
- v. New platform
None

I 2.05.0003, July 07, 2006

- i. Service
 - 1. FIX: ePower_DMC.exe runs on administrator privilege after installation complete.
 - (a) Solution:
 - 1) ePower service impersonates current logon user privilege and creates ePower_DMC.exe as an user process.
 - 2) It is identical to launch ePower UI.
- ii. Tray icon
 - 1. FIX: ePower conflicts with eSetting. It register the same IPC port name.
 - (a) Solution:
 - 1) Create a unique IPC unique port name.
- iii. UI/Specification changes
 - 1. FIX: ePower conflicts with eSetting. It register the same IPC port name.
 - (a) Solution:
 - 1) Create a unique IPC unique port name.
- iv. InstallShield
 - 1. FIX: ePower_DMC.exe runs on administrator privilege after installation complete.
 - (a) Solution:
 - 1) Launch ePower_DMC by LaunchePowerDMC.bat.
 - 2) Launch ePower_UI by LaunchePowerUI.bat.
- v. New platform
 - None

I 2.05.0002, June 30, 2006

- i. Service
 - 1. FIX: None, only for service protection.
 - (a) Solution:
 - 1) Add ePower service dependency in order to make sure that WMI service will launch earlier than ePower service.
 - 2. FIX: None
 - (a) Solution:
 - 1) Modify ePower service name from WMIService.exe to ePowerSvc.exe.
- ii. Tray icon
 - 1. FIX: ePower_DMC does not know ePower service is alive or not.
 - (a) Solution:
 - 1) Find ePower service status running or not.
- iii. UI/Specification changes
 - 1. FIX: Change LCD brightness too slow from LCD track bar.
 - (a) Solution:
 - 1) Communicate with ePower service to change brightness. Do not change brightness through ePower_DMC.
- iv. InstallShield

1. FIX: ePower could not install on any folder besides C:\Acer\Empowering Technology\ePower
 - (a) Solution:
 - 1) Modify script file, registry, BackupPwrPfl.exe, and CompileMOF.exe .
- v. New platform

None

I 2.05.0001, June 27, 2006

- i. Service
 1. FIX: Device could not be addressed by PCI address. The buffer represented device address is too small.
 - (a) Solution:
 - 1) Extend buffer to 3 bytes.
- ii. Tray icon
 1. FIX: User could not launch ePower UI from program file or battery context menu.
 - (a) Solution:
 - 1) Modify “-I” code section in ePower_DMC
- iii. UI/Specification changes

None
- iv. InstallShield
 1. FIX: MOF file registration will be blocked by UAP
 - (a) Solution:
 - 1) Use IMofCompiler COM API.
- v. New platform

None