

Empowering Technology Framework 2.5: Release Notes

1. Product Release Information

Product Name: Empowering Technology Framework 2.5

Release Number: 2.5.4301

Release Date: 2008-1-11

Customer Support: Ryan YP Wang

2. Introduction

This document contains the release notes for Empowering Technology Framework 2.5. The following sections describe the release in detail and provide late-breaking or other information that supplements the main documentation.

3. Command Line Options

Below are command line options that can be used when installing Empowering Technology Framework from command line prompt.

1. DT:

- (a) Indicate installed machine type is desktop.
- (b) If no DT argument appended, target platform will be configured as NB.

ex:

- 1. Install ETF on DT silently
ETFInstaller.exe -s DT
- 2. Install ETF on NB silently
ETFInstaller.exe -s

2. Aspire

- (a) Apply green color skin
- (b) This option is available in v2.5.4003 and later versions
- (c) If no aspire argument appended, ETF will check model name written in SMBIOS table.

NB & aspire : apply green color skin

DT & non-veriton : apply green color skin

ex:

Force to apply green color skin
ETFInstaller.exe -s aspire

3. LanOff

- (a) Only support 11 multi-languages on NB, including en, de, es, fr, it, ja, nl, pt, sv, zh-CHS and zh-CHT
- (b) This option is available in v2.5.4005 and later versions.
- (c) The option has no effect on DT
- (d) For v2.5.4300 and later version, if no LanOff argument appended, NB supports 20 languages by default.

ex:

Turn off 20 languages support on NB
ETFInstaller.exe -s lanoff

4. LanOn

- (a) support 20 multi-languages on NB, including en, de, es, fr, it, ja, nl, pt, sv, zh-CHS, zh-CHT plus cs, da, el, fi, hu, no, pl, ru and tr
- (b) This option is available in v2.5.4005 and later versions.
- (c) The option has no effect on DT
- (d) If no LanOn argument appended, NB supports 20 languages by default.

ex:

Turn on 20 languages support on NB
ETFInstaller.exe -s lanon

5. Veriton

- (a) Apply blue color skin
- (b) This option is available in v2.5.4008 and later versions
- (c) If no veriton argument appended, ETF will check model name written in SMBIOS table.

NB & aspire : apply green color skin

DT & non-veriton : apply green color skin

ex:

Force to apply blue color skin
ETFInstaller.exe -s veriton

4. What's New

- 2.5.4301, January 11, 2008

i. Changed Files and features

Change tutorial files

ii. Issues Solved

1. Include new tutorial in the installer (update eDataSecurity part,
Only for ETF v2.5.43xx)

(a) Code Reviewer

Christian Huang

2. When upgrade from ETF v2.5.40xx to ETF v2.5.43xx in NB, the
languages support should keep 11 languages.

(a) Code Reviewer

Christian Huang

1. Know Issues

None

2. Limitation

- Maximize box can only be disabled. The only way to remove it is
disabling both maximize and minimize buttons.

3. Minimum System Requirements

System Processor: Intel or AMD IA32 processor

System Memory: 512MB+ (1GB+ recommended)

Free Disk Space: 20MB+

Operating System: Microsoft Windows Vista

Networking: None required

Existing Software: .NET Framework 2.0

4. Installation and Upgrade Notes

- **Installation**

Run Empowering Technology Framework 2.5 installer package to install
all necessary binaries.

- **Manifest**

This release consists of the following items:

- i. Release Note
- ii. Empowering Technology Framework 2.5 Installer
- iii. Checked list

5. Version History

- 2.5.4300, November 16, 2007
Correct Lanon/Lanoff command line in Release Note.
- 2.5.4300, September 10, 2007
There's no change in this version. This version is for Vista SP1.
- 2.5.4011, September 10, 2007
 - i. Changed Files and features
None
 - ii. Issues Solved
ETF
 - 2. FIX: Tabs on the bottom of eAP page disappear when Switching to other eAP page in minimize window state.
 - (a) Code Reviewer
Christian Huang
- 2.5.4010, August 29, 2007
 - i. Changed Files and features
UI components v2.0.27.0
 - ii. Issues Solved
UI Component:
 - 3. FIX: Empty string is displayed in message box button when system locale is not supported.
 - (a) Code Reviewer
Christian Huang
- 2.5.4009, August 1, 2007
 - i. Changed Files and features
UI components v2.0.26.0
 - ii. Issues Solved

ETF:
 - 1. FIX: Abnormal border after boot.

- (a) Code Review
Christian Huang
- 2. FIX: Opening eDataSecurity PSD setup page cause
ETF_v2.5.4008 to crash
 - (a) Code Review
Christian Huang

UI Component:

- 4. FIX: Amazing Form overlap issue(56)
 - (a) Code Review
Christian Huang
- 5. FIX: RichTextBox link text issue
 - (a) Code Review
Christian Huang

- 2.5.4008, June 15, 2007
 - i. Changed Files and features
UI components v2.0.25.0

ii. Issues Solved

ETF:

- 1. FIX: ETF error in X64 OS with 4G system RAM.
 - (a) Code Review
Christian Huang
- 2. FIX: Z-order issue, ETF bar disappears after eAP launched
 - (a) Code Review
Christian Huang
- 3. ADD: Add “veriton” command line switch to force ETF
applying blue color skin on DT
 - (a) Code Review
Christian Huang

UI Component

- 6. FIX: ComboBox dropdown scroll issue
 - (a) Code Review
Christian Huang
- 7. FIX: MessageBox Multilanguage

- (a) Code Reviewer
Christian Huang
 - 8. FIX: FxCop performance rule fixes
 - (a) Code Reviewer
Christian Huang
 - 9. Change: Change ImageRadio text to glow
 - (a) Code Reviewer
Christian Huang
 - 10. Change: Change Embedded icon to compressed format
 - (a) Code Reviewer
Christian Huang
 - 11. Change: Amazing Icon behavior, hover form no longer closes after click
 - (a) Code Reviewer
Christian Huang
- ii. UI Changed
 - None
- 2.5.4007, June 1, 2007
 - i. Changed Files and features
 - 1. Add new tutorial(DT) file for Aspire series model
 - ii. Issues Solved
 - 1. FIX: The title "Right-click popup menu" in help file was a hyperlink format.(52)
 - (a) Code Reviewer
Christian Huang
 - 2. FIX: The tutorial file was lost for the DT version(50)
 - (a) Code Reviewer
Christian Huang
 - 3. FIX: Order Rearrangement issue
 - (a) Code Reviewer
Christian Huang

4. FIX: Password center overlap widget setup view (48)
 - (a) Code Reviewer
Christian Huang
5. FIX: z-order issue
 - (a) Code Reviewer
Christian Huang
6. FIX: ETF should not be able to be launched by both local/domain guest.
 - (a) Code Reviewer
Christian Huang
7. FIX: Popup Message Box can't be accessed when user closes ETF in Widget mode without applying the change of eAPs status.
 - (a) Code Reviewer
Christian Huang
8. Change: NB default only supply 11 languages.
 - (a) Code Reviewer
Christian Huang
9. Change: Close ETF before silent upgrade
 - (a) Code Reviewer
Christian Huang
- iii. UI Changed
None
- 2.5.4006, April 25, 2007
 - i. Changed Files and features
None
 - ii. Issues Solved
 1. FIX: On battery mode, if display turns off and turns on, eLogo animation will start again.
 - (a) Code Reviewer
Christian Huang
 2. FIX: mismatched tutorial files
 - (a) Code Reviewer
Christian Huang

- iii. UI Changed
None

- 2.5.4005, April 20, 2007
 - i. Changed Files and features
 - 1. UI component 2.0.24.0
 - 2. Add new tutorial(en) file for Aspire series model
 - 3. Sign WMI AcerCheck.exe, SysMonitor.exe and eAPLaunhcer.exe
 - ii. Issues Solved
 - 1. FIX: ETF toolbar always on the top after setting or changing password
 - (a) Code Reviewer
Christian Huang
 - 2. ADD: Add registry switch values under HKEY_LOCAL_MACHINE\Software\Acer\Empowering Technology 2.5\Framework:
DPIAware:REG_DWORD:1 | 0
=> turn on/off dpi awareness
AllLanguage:REG_DWORD:1 | 0
=> turn on/off 20 languages support (en, cs, da, de, el, es, fi, fr, hu, it, ja, nl no, pl, pt, ru, sv, tr, zh-CHS, zh-CHT)
 - (a) Code Reviewer
Christian Huang
 - 3. CHANGE: Both DT and NB support 20 languages. (If registry value of AllLanguage is set to 0, only DT supports 20 languages.)
 - (a) Code Reviewer
Christian Huang
 - 4. CHANGE: Remove DPI awareness from DT. (If registry value of DPIAware is set to 1, enable DPI awareness on DT too.)
 - (a) Code Reviewer
Christian Huang
 - 5. CHANGE: DT support Aspire UI, except for veriton series models.
 - (a) Code Reviewer
Christian Huang
 - 6. ADD : Add LanOff command line option to disable 20 multi-languages support
 - (a) Code Reviewer
Christian Huang

- iii. UI Changed
None

- 2.5.4004, March 13, 2007

- i. Changed Files and features
 - 1. UI component 2.0.23.0
- ii. Issues Solved
 - 1. ETF cannot be uninstalled when installation with “aspire” command line option
 - (a) Code Review
Christian Huang
 - 2. Refresh curtain in widget mode when user change power skin to power saver plan by ePower widget.
 - (a) Code Review
Christian Huang
 - 3. Display reboot required page when trying to remove locked eAPs’ files
 - (a) Code Review
Christian Huang

- iii. UI Changed
None

- 2.5.4003, March 2, 2007

- i. Changed Files and features
 - 1. UI component 2.0.22.0
- ii. Issues Solved
 - 1. Check machine model name in WMI AcerCheck. If model type is Aspire, set key value of “AppearanceChange” to 1 under HKEY_LOCAL_MACHINE\Software\Acer\Empowering Technology 2.5\Framework; else set to 0

- iii. UI Changed
 - 1. Apply new UI skin for Aspire series product

- 2.5.4002, February 7, 2007

- i. Changed Files and features
None
- ii. Issues Solved
 - 1. Skip to show eRecovery’s subversion
 - (a) Code Review
Christian Huang

2. Dynamically load VitaKey 32/64 dlls
 - (a) Code Review
Christian Huang
 3. According to registry setting
(HKEY_LOCAL_MACHINE\Software\Acer\Empowering Technology 2.5\Framework => Fingerprint:REG_DWORD),
turn on/off VitaKey functions.
(Default is set to enable VitaKey functions)
 - (a) Code Review
Christian Huang
 - iii. UI Changed
None
- 2.5.4001, January 31, 2007
 - i. Changed Files and features
None
 - ii. Issues Solved
 1. Save encrypted password to Fingerprint password store
 - (a) Code Review
Christian Huang
 2. Set ETF process as DPI aware
 - (a) Code Review
Christian Huang
 3. According to registry setting
(HKEY_LOCAL_MACHINE\Software\Acer\Empowering Technology 2.5\log\Framework => LogAll:REG_DWORD),
turn on/off logging at runtime.
Log file will be put in ETF's basefolder\Logs.
 - (a) Code Review
Christian Huang
 - iii. UI Changed
None
 - 2.5.3005, January 24, 2007
 - i. Changed Files and features
None
 - ii. Issues Solved
 1. FIX: Launch ETF on AC mode and then let system enter standby or hibernation, pull out the AC to let the system enter the battery mode, and power on the system. eLogo's animation will not stop.

- (a) Root Cause:
ETF should re-check system power status when resuming from standby or hibernation.
 - (b) Code Review
Christian Huang
 - 2. FIX: Click the cancel button on the right-up corner of “Password Needed” dialog, eLock and eRecovery will be unable to launched again.
 - (a) Root Cause:
ETF doesn’t well handle the DialogResult object returned by “PasswordNeeded” dialog. Even if the dialog is closed, ETF will consider it still exists and won’t re-create one.
 - (b) Code Review
Christian Huang
 - iii. UI Changed
None
- 2.5.3004, January 18, 2007
 - i. Changed Files and features
None
 - ii. Issues Solved
 - 1. FIX: exception occurs when trying to show the same modal dialog twice
 - (a) Code Review
Christian Huang
 - iii. UI Changed
None
- 2.5.4000, January 10, 2007
 - i. Changed Files and features
None
 - ii. Issues Solved
 - 1. ADD: Add Fingerprint support
 - (a) Code Review
Christian Huang
 - iii. UI Changed
None
- 2.5.3003, December 25, 2006
 - i. Changed Files and features

1. UI component v2.0.20.0
 - ii. Issues Solved
 1. ADD: Add null reference check on AboutView when user select About from right-clicked context menu before toolbar retrieving plugin's version info.
 - (a) Code Review
Christian Huang
 2. Fix: Launching help file generates security(PCA) warning message when only WLAN is enabled
 - (a) Code Review
Christian Huang
 3. CHANGE: If DWORD of Acer does not exist under HKEY_LOCAL_MACHINE\Software\Acer\Empowering Technology 2.5\Framework, recreate one when invoking WMI to check Acer machine again.
 - (a) Code Review
Christian Huang
 4. CHANGE: Create plug-in main UI form when plug-in returned AppPage is not null.
 - (a) Code Review
Christian Huang
 5. CHANGE: Force to refresh desktop during plug-in initialization with lower memory (512 MB)
 - (a) Code Review
Christian Huang
 6. CHANGE: default set to enable transparent toolbar
 - (a) Code Review
Christian Huang
 - iii. UI Changed
None
- 2.5.3002, November 23, 2006
 - i. Changed Files and features
 1. eAPLauncher v1.0.3.0
 2. UI component v2.0.19.0
 - ii. Issues Solved
 1. Add toolbar drag boundary check.
 2. Fix: Plugin initialization issue on low-memory(less than 512MB) sku
 3. Fix: auto-launch SysMonitor.exe on desktop.
 - iii. UI Changed

None

- 2.5.3001, November 15, 2006
 - i. Changed Files and features
 - 1. eAPLauncher v1.0.2.0
 - ii. Issues Solved
 - None
 - iii. UI Changed
 - Toolbar banner image used in minimized mode
- 2.5.3000, November 12, 2006
 - i. Changed Files and features
 - 1. UI components v2.0.18.0
 - 2. Add help files of cs, da, el, fi, hu, no, pl, ru and tr.
 - 3. eAPLauncher v1.0.1.1
 - ii. Issues Solved
 - 1. Fix 0042: All applications are unselected on Widget Setup View after restarting the system
 - 2. Fix: E2B2 pen click issue
 - 3. Fix: eAp quick launch issue (replace BeginInvoke() with Invoke())
 - 4. Fix: InvalidOperationException exception (enumeration operation can not execute)
 - 5. Remove ETF from startup menu
 - 6. Do not remove tutorial files after removing ETF
 - 7. Add value of “DelayLaunch” under HKEY_LOCAL_MACHINE\Software\Acer\Empowering Technology 2.5\Framework to determine whether toolbar should run or not
 - 8. Add value of “DelayInterval” under HKEY_LOCAL_MACHINE\Software\Acer\Empowering Technology 2.5\Framework to determine the delay interval of loading each plugin (default is 250 milliseconds)
 - 9. Detect WM_DISPLAYCHANGE event and update tooltip for ePresentation
 - 10. Set password center to be shown on topmost
 - 11. Delay eLogoBtn’s animation loading
 - 12. Fix tooltip issue in About View.
 - 13. Do not remove password and hint after uninstalling ETF.
 - iii. UI Changed
 - None

- 2.5.2003, October 23, 2006
 - i. Changed Files and features
 - 1. UI components v2.0.15.0
 - 2. Add de, es, fr, it, ja, nl, pt, sv, zh-CHT, zh-CHS help files
 - ii. Issues Solved
 - 1. Fix 0033: There is a “white block” on screen left-upper side when view widget by mouse click
 - 2. Fix 0036: “Program Compatibility Assistant” prompt pop-up
 - 3. Fix 0038: cannot uninstall eFramework on Vista x64 edition
 - 4. Change version number v2.05 to v2.5
 - 5. Remove AppDomain feature
 - 6. Set password and hint to the hidden partition through eRecovery service
 - iii. UI Changed
None

- 2.05.2002, October 11, 2006
 - i. Changed Files and features
 - 1. UI components v2.0.13.0
 - 2. Update tutorial file (only English version for DT & NB)
 - 3. Update help file (only English version)
 - 4. Update website link of online help
 - 5. Add cs, da, el, fi, hu, no, pl, ru and tr support on Desktop
 - ii. Issues Solved
 - 1. Fix: 0035: Need 2 minutes to do it when change password and key in Max. length on Hint field (Hint of password is missed.)
 - 2. Toolbar initial position must consider sidebar
 - 3. Add OS check (toolbar only can be run on Windows Vista)
 - iii. UI Changed
None

- 2.05.2001, September 25, 2006
 - i. Changed Files and features
 - 1. UI components v2.0.12.0
 - 2. EN-tutorial file draft
 - ii. Issues Solved
 - 1. Fix: 0024: Wrong displayed order when ETF toolbar overlaps with other active eAP window
 - (a) Implementation limitation
 - 2. Fix: 0030: Catch unhandled exception error

- (a) Plug-in service issue
 - 3. Fix: 0032: ETF toolbar still exist and some eAPs can run user guest account.
 - 4. Fix: 0034: Please unify the format of eAP under guest account.
 - (a) Guest user cannot run ETF
 - 1) When user login as guest, no warning message is shown while system auto runs ETF. The warning message will only be displayed when user tries to launch ETF from its shortcut.
 - iii. UI Changed
 - None
- 2.05.2000, September 11, 2006
 - i. Changed Files and features
 - 1. UI components v2.0.11.0
 - ii. Issues Solved
 - 1. Fix: 0022: Launch eRecovery needs to setup password twice while switching account to another administrator
 - 2. Fix: 0023 Content of help file is not updated
 - 3. Fix: 0025 Installer spent long time during installation
 - 4. Fix: 0027 The tab in eSettings and ePower look strange
 - 5. Fix: 0028 eSettings cannot enable ETF toolbar
 - 6. Quick launch issue
 - iii. UI Changed
 - None
 - 2.05.1002, August 31, 2006
 - i. Changed Files and features
 - 1. UI components v2.0.10.0
 - ii. Issues Solved
 - 1. Fix: 0016 ETF show reboot page after uninstalling ETF
 - 2. WMI AcerCheck crash on 64-bit machine
 - 3. Automatically un-installation eAPs can not work on 64-bit machine
 - 4. Password function fails on 64-bit machine
 - 5. Redesign the algorithm for setting widget default location
 - iii. UI Changed
 - ETF image in Minimized Mode
 - 2.05.1001, August 17, 2006

- i. Changed Files and features
 - 1. UI components v2.0.9.0
 - ii. Issues Solved
 - 1. Fix: 0009 The highlight is too short on ContextMenu
 - (a) Remove AutoSize property if the width of menuItem is less than the width of caption image.
 - 2. Fix: 0014 Strange color on ETF toolbar when color depth is changed from 32-bit to 16-bit
 - (a) Remove transparent key(255, 255, 255)
 - 3. Fix: 0015 ComboBox exceeds the scope of screen
 - 4. Fix: 0016 ETF show reboot page after uninstalling ETF
 - 5. Fix 0017 Unable to save the widget state
 - 6. Fix 0018 The location of Password Center is not on the center of screen
 - iii. UI Changed
 - 1. New Empowering Technology banner
 - 2. Remove elogo from Windows form caption
- 2.05.0006, August 10, 2006
 - i. Changed Files and features
 - 1. UI components v2.0.8.0
 - ii. Issues Solved
 - 1. Add null reference check before showing widget
 - 2. In main UI page, remove “size” item from system menu
- 2.05.0005, July 28, 2006
 - i. Changed Files and features
 - 1. UI components v2.0.7.1
 - ii. Issues Solved
 - 1. Bug DB 0006: Modify option in maintenance mode of ETF installer
 - (a) Procedure
 - 1) Install ETF
 - 2) Re-launch ETF installer and choose “Modify”
 - 3) No feature listed in feature selection page
 - (b) Solution
 - 1) Remove feature selection page in ETF installer
 - 2. Toolbar flickers at start-up time
 - (a) Procedure
 - 1) Launch ETF

- 2) Toolbar flickers
 - (b) Solution
 - 1) Set transparent key to color white
- 3. Change the name of publisher from “Acer” to “Acer Inc.”
- 4. Change eLogo icon (256 x 256 pixels)
- 2.05.0004, July 20, 2006
 - i. Changed Files and features
 - 1. UI components v2.0.6.1
 - ii. Issues Solved
 - 1. Bug DB 0003: more than one ETF help files will be shown at the same time
 - (a) Procedure
 - 1) Click “Help” item from ETF context menu
 - 2) Minimize the help file
 - 3) Click the “Help” item again, and tow help files exist
 - (b) Solution
 - 1) Problem occurs only when the system language is set to Germany and English.
 - 2) Rebuild the corresponding html source files. Do not add any other window definitions.
 - 2. Bug DB 0005: error occurs in eAP main UI page while screen color depth is being changed
 - (a) Procedure
 - 1) Launch eNet on 32 bit color depth
 - 2) Change color depth to 16 bit
 - 3) Transparent panels in main UI page are dark
 - (b) Solution
 - 1) Detect color depth change when userPreferenceChanged event occurs
 - 3. Bug DB 0006: Strange behavior of “Modify” option in ETF installer.
 - (a) Procedure
 - 1) Install ETF
 - 2) Remove acer.empowering.windows.forms.dll
 - 3) Relaunch ETF installer and choose “Modify”
 - 4) Uncheck the “DefaultFeature” to uninstall all related functions.
 - 5) After removing the default feature, ETF still can be found in Add/Remove program. (All files and shortcuts should be uninstalled.)

- (b) Solution
 - 1) Remove “DefaultFeature” option
- 4. Bug DB 0007: The “Modify” option in ETF installer does not work properly.
 - (a) Procedure
 - 1) Install ETF
 - 2) Remove acer.empowering.windows.forms.dll
 - 3) Relaunch ETF installer and choose “Modify”
 - 4) Select the “DefaultFeature” to install and wait all operations finish
 - 5) Click ETF shortcut
 - 6) Error message is shown
 - (b) Solution
 - 1) Remove “DefaultFeature” option, since we don’t have sub-feature in ETF.
 - 2) Reinstall default feature when user selects “Modify”
- 5. Bug DB 0008: The “Repair” option in ETF installer does not work properly
 - (a) Procedure
 - 1) Install ETF
 - 2) Remove acer.empowering.windows.forms.dll
 - 3) Relaunch ETF installer and choose “Modify”
 - 4) Uncheck the “DefaultFeature” to uninstall all related functions and wait all operations finish
 - 5) Launch ETF installer and choose “Repair”
 - 6) After repairing, ETF still can not work. No files will be reinstalled.
 - (b) Solution
 - 1) Remove “DefaultFeature” option

- **2.05.0003, July 13, 2006**

- i. Changed Files and features
 - 1. UI components v2.0.5.0
 - 2. Change ETF installed registry key to
HKEY_LOCAL_MACHINE\SOFTWARE\Acer\Empowering
Technology 2.5\Framework
 - 3. Remove registry monitor
- ii. Issues Solved
 - 1. Plug-in lazy initialization
 - (a) Procedure

- 1) ETF succeeds to create plug-in's instance and lightens corresponding AppIcon on toolbar.
 - 2) At this time, plug-in may not be ready to run, since its related services have not been started or initialization has not completed yet, etc.
 - 3) User clicks the AppIcon which is not ready to launch.
 - 4) Error exception occurs
- (b) Solution
- 1) Change plug-in interface. Add Ready property to notify ETF that plug-in could be used.
 - 2) Add Ready flag in updated component list, so that plug-in could issue OnUpdateApp event to inform ETF about its current status.

- **2.05.0002, July 6, 2006**

- i. Changed Files
 1. UI components v2.0.4.0
- ii. Issues Solved
 1. Plugin needs to copy some necessary dlls to ETF base folder

(a) Solution

 - 1) Add relative search path while creating child application domain

- **2.05.0001, July 3, 2006**

- i. New design of separate application domain
 1. Default domain runs "Supervisor", and "Supervisor" will create a new application domain to load ETF toolbar.

(a) Dynamically load and unload toolbar
- ii. Implement registry monitor
- iii. Non-transparent toolbar
 1. In HKEY_CURRENT_USER\Software\Acer\Empowering Technology 2.0\Framework, set key value of "Transparency" to "Enabled" to enable transparent toolbar