

# eSettings Management V2 Release Notes

## 1. Product Release Information

**Product Name:** eSettings Management V2

**Release Number:** V2.3.5003

**Release Date:** April 25, 2008

**Customer Support:** Jones Hsu, Rical Hsieh

## 2. Introduction

This document contains the release notes for eSettings Management V2. The following sections describe the release in detail and provide late-breaking or other information that supplements the main documentation.

## 3. What's New

- 2.3.5003, April 25, 2008
  - i. Spec. change
    - 1. Support DDR3 memory type
    - 2. Remove BUS speed for AMD CPU and DT
    - 3. Add CPU cache information
    - 4. Change DT monitoring rule

## 4. Minimum System Requirements

**System Processor:** Intel or AMD IA32 processor

**System Memory:** 256MB+ (512MB+ recommended)

**Free Disk Space:** 20MB+

**Operating System:** Microsoft Windows XP

**Networking:** None required

**Existing Software:** .NET Framework 1.1, Empowering Technology Framework

## 5. Installation and Upgrade Notes

- Installation
  - Run eSettings Management V2 installer package to install all necessary binaries.
- Manifest
  - This release consists of the following items:
    - 1) Release Note
    - 2) eSettings Management V2 installer

## 6. Version History

- 2.3.5002, January 24, 2008
  - i. Issues Solved
    1. #0095: The items of modem and bluetooth are not shown in Summary page.
      - (a) Code Reviewed by: Christian
    2. Restrict asset tag input words
      - (a) Code Reviewed by: Christian
- 2.3.4005R, January 22, 2008
  - i. Special version for DT Retriever.
    1. Change ITEIO.dll
- 2.3.5001, December 27, 2007
  - i. Issues Solved
    1. L2 cache information disappears on Penryn platform
      - (a) Code Reviewed by: Christian
    2. Remove case sensitivity on password check (New Password and Confirm Password fields)
      - (a) Code Reviewed by: Christian
    3. Add battery information. Hide it if we get unknown capacity or chemistry value.
      - (a) Code Reviewed by: Christian
    4. Detect ITE sensor chip first, then SMSC
      - (a) Code Reviewed by: Christian
    5. Add Installer checking ETF version. Only ETF with version 2.3.5000 and above can be installed.
    6. Int15 driver update to 1.0.1.2 for x86 version, 1.1.0.0 for x64 version

7. Remove voltage from monitoring page
8. [0088] No hint shows if user didn't enter password during removing password.  
(a) Code Reviewed by: Christian
9. [0089] Driver version of modem is not shown.  
(a) Code Reviewed by: Christian
- 10.[0090] UI is not synchronized after setting is changed by another user account.  
(a) Code Reviewed by: Christian
- 11.[0091] Content of help file is different from UI.  
(a) Code Reviewed by: Christian
- 12.[0094] Restart computer after create BIOS Supervisor Password, then pop exception message  
(a) Code Reviewed by: Christian

- 2.03.4005, December 11, 2007

- i. Issues Solved

1. L2 cache information disappears on Penryn CPU platform  
(a) Code Reviewed by: Christian

- 2.03.5000, November 30, 2007

- i. Issues Solved

1. CHANGE:

- (a) Summary page

- 1) Remove manufacturer information
- 2) Add Webcam information
- 3) Replace "Ethernet Card #" and "Wireless Card #" with "Network #"

- (b) Processor page

- 1) Remove stepping information
- 2) Remove external clock information
- 3) Remove hyper threading information
- 4) Replace "Dual-Core" with "Cores"
- 5) Hide L1 and L2 cache information

- (c) Memory

- 1) Change "Supported Types" to "Memory Type"
- 2) Change "Memory Slots" to "Slot Installed Size"
- 3) Using MB as unit

- (d) MB and BIOS page

- 1) Change “MB and BIOS” to “BIOS”
- 2) Remove MB manufacturer information
- 3) Remove MB serial number information
- 4) Remove BIOS vendor
- 5) BIOS release date only shown on DT
- 6) Remove BIOS ROM size
- (e) Video page
  - 1) Show screen resolution and color quality on DT only
- (f) Network page
  - 1) Display network device even it’s disabled (1394 card is not included)
  - 2) Add “View Connections” button
  - 3) Only show device name, driver version, MAC address and firmware version(DT only)
- (g) Code Reviewed by: Christian

- 2.03.4004, July 31, 2007
  - i. Issues Solved
    - 1. FIX: Overflow exception when installed system memory size is bigger or equal to 2048MB
  - (a) Code Reviewed by: Christian
- 2.03.4003, June 28, 2007
  - i. Issues Solved
    - 1. CHANGE: Add multiplier string for L2 cache size info. on AMD multi-core platform.
  - (a) Code Reviewed by: Christian
- 2.03.4002, June 22, 2007
  - i. Issues Solved
    - 1. CHANGE: Update INT15 32-bit driver
- 2.03.4001, June 21, 2007
  - i. Issues Solved
    - 1. CHANGE: Show CPU stepping information in hexadecimal
  - (a) Code Reviewed by: Christian
  - 2. CHANGE: Show VRAM size in MB unit

- (a) Code Reviewed by: Christian
- 3. CHANGE: Show CPU L1 cache size in the form of  
%CacheSize% x %CoreNumber% if CPU physical core number  
is greater than one
  - (a) Code Reviewed by: Christian
- 4. CHANGE: Hide ODD of interface USB and 1394
  - (a) Code Reviewed by: Christian
- 5. FIX: Missed L2 cache information
  - (a) Code Reviewed by: Christian
- 2.03.4000, March 29, 2007
  - i. Issues Solved
    - (a) Change: remove chipset information display for NB
    - (b) ADD: additional information display method in registry
- 2.03.2027, September 19, 2006
  - i. Issues Solved
    - (a) Change: Fan speed threshold changed, CPU fan: 500 rpm,  
System fan: 0 rpm
  - ii. Note
    - 1. This version contains resources for 20 languages.
- 2.03.2026, September 19, 2006
  - i. Issues Solved
    - (a) Change: Fan speed threshold changed, CPU fan: 500 rpm,  
System fan: 0 rpm
  - ii. Note
    - 1. This version contains resources for 11 languages only.
- 2.03.2025, September 14, 2006
  - i. Issues Solved
    - (a) ADD: Language support for Czech, Danish, Finnish, Greek,  
Hungarian, Norwegian, Polish, Russian and Turkish
- 2.03.2024, September 5, 2006
  - i. Issues Solved

1. UPDATE: ITEIO.dll library for ITE sensor data reading, fix fan sensor not shown in chaussie platform

(a) Procedure

- 1) Launch toolbar
- 2) Open eSettings
- 3) Switch to Monitoring, fan speed page

(b) Root cause:

- 1) Sensor reading not enabled

(c) Solution

- 1) Workaround, enable sensor reading in application.

(d) Code Reviewed by: Rebecca

- 2.03.2023, August 29, 2006

i. Issues Solved

1. FIX: Processor page exception in Norwergian.

(a) Procedure

- 1) Launch toolbar
- 2) Open eSettings
- 3) Switch to processor page.

(b) Root cause:

- 1) String to double conversion issue

(c) Solution

- 1) Handle properly the string conversion

(d) Code Reviewed by: Rebecca

- 2.03.2022, August 24, 2006

i. Issues Solved

1. FIX: L2 cache information missing in merom CPU.

(a) Procedure

- 1) Launch toolbar
- 2) Open eSettings
- 3) Switch to processor page.

(b) Root cause:

- 1) CPUID information incomplete

(c) Solution

- 1) Handle case for merom CPU.

(d) Code Reviewed by: Rebecca

2. CHANGE: Sensor check order modified

- 2.03.2021, August 21, 2006
  - i. Issues Solved
    - 1. FIX: Exception when entering monitoring page.
      - (a) Procedure
        - 1) Launch toolbar
        - 2) Open eSettings
        - 3) Exception, unable to read performance counter information
      - (b) Root cause:
        - 1) Performance counter instancename contains invalid characters “( )#/\\”
      - (c) Solution
        - 1) Replace invalid characters according to table.
      - (d) Code Reviewed by: Rebecca
- 2.03.2020, August 3, 2006
  - i. Issues Solved
    - 1. CHANGE: Add reference check to avoid issues when SMBIOS data is not filled correctly.
      - (a) Procedure
        - 1) Launch toolbar
        - 2) Open eSettings
        - 3) No information shown
      - (b) Root cause:
        - 1) SMBIOS data incorrectly shown
      - (c) Solution
        - 1) Add reference checks.
      - (d) Code Reviewed by: Rebecca
    - 2. FIX: multilanguage issue in swedish, polish and russian language
      - (a) Procedure:
        - 1) Launch toolbar
        - 2) Open eSettings
        - 3) No information shown
      - (b) Root cause:
        - 1) String function used in IPHelperNetwork class incorrectly translates localized characters, causing index out of range issue.
      - (c) Solution

- 1) Add range check
- 2) Use proper string handling function
- (d)Code Reviewed by: Rebecca.
3. FIX: issue when peflib registry key data is corrupt.
  - (a) Procedure:
    - 1) Launch toolbar
    - 2) Open eSettings
    - 3) No information shown
  - (b)Root cause:
    - 1) HKEY\_LOCAL\_MACHINE\SOFTWARE\Microsoft\Windows NT\CurrentVersion\Perflib\009 information is corrupt
  - (c) Solution:
    - 1) Handle exception
  - (d)Code Reviewed by: Rebecca
4. ADD: Intel QST(Quiet System Technology) support implemented
  - (a) Procedure:
    - 1) Launch toolbar
    - 2) Open eSettings
    - 3) Switch to monitoring page
    - 4) No information shown for temperature/voltage/fan sensors
  - (b)Root Cause:
    - 1) Sensor implementation not supported
  - (c) Solution:
    - 1) Implement Intel QST support
    - 2) AFSC library V2.0.2.1114
  - (d)Code Reviewed by: Rebecca

- 2.03.2019, July 18, 2006

- i. Issues Solved

1. CHANGE: Audio and Video status, unknown will be translated to disabled.
  - (a) Procedure
    - 1) Open Device manager
    - 2) Disable audio and video device
    - 3) Launch toolbar
    - 4) Open eSettings
    - 5) Open audio or video page



- 6) Status shows unknown
- (b) Root cause:
  - 1) WMI Spec
- (c) Solution
  - 1) We translate the status to disabled.
- (d) Code Reviewed by: Rebecca
- 2. CHANGE: Bus speed for AMD64 processor is incorrect.
- (a) Procedure:
  - 1) Launch toolbar
  - 2) Open eSettings
  - 3) Open processor page
  - 4) Bus speed is incorrect
- (b) Root cause:
  - 1) Integer rounding error.
- (c) Solution:
  - 1) Use table to translate.
- (d) Code Reviewed by: Rebecca
- 3. CHANGE: Serial/IR/Parallel port on NB use INT15 for detection/status
- (a) Procedure:
  - 1) Launch toolbar
  - 2) Open eSettings
  - 3) Open summary page
  - 4) Serial/IR/Parallel port status is inconsistent
- (b) Root cause:
  - 1) We did not use completely INT15 on NBs
- (c) Solution:
  - 1) Change information provider to use completely INT15.
- (d) Code Reviewed by: Rebecca
- 4. CHANGE: Enabled/Disabled string localized
- (a) Procedure:
  - 1) Launch toolbar
  - 2) Open esettings
  - 3) Switch to Processor/Audio/Video page
  - 4) Status string is not localized
- (b) Root cause:
  - 1) We did not localize the string
- (c) Solution:
  - 1) Use localized version
- (d) Code Reviewed by: Rebecca

5. FIX: Exception when no network device present

(a) Procedure:

- 1) Open Device Manager
- 2) Disable all network devices (Wired/Wireless)
- 3) Launch toolbar
- 4) Open eSettings
- 5) Switch to network information page
- 6) Exception happens

(b) Root cause:

- 1) Null ref check not implemented

(c) Solution:

- 1) Check for null

(d) Code Reviewed by: Rebecca.

- 2.03.2018, June 27, 2006

i. Issues Solved

1. CHANGE: When supervisor password is removed, user password will also be removed

(a) Procedure

- 1) Launch toolbar
- 2) Open eSettings
- 3) Open BIOS passwords page
- 4) Create supervisor password
- 5) Create user password
- 6) Remove supervisor password
- 7) Create supervisor password
- 8) User password is already created.

(b) Root cause:

- 1) Spec

(c) Solution

- 1) User password will be removed when supervisor password is removed.

(d) Code Reviewed by: Rebecca

2. CHANGE: Disabled modem device will not be shown.

(a) Procedure:

- 1) Launch toolbar
- 2) Open eSettings
- 3) Open System information page, switch to network page
- 4) Open device manager
- 5) Disable modem device

- 6) Modem is still displayed in System information page.
- (b) Root cause:
  - 1) Previous spec did not specify.
- (c) Solution:
  - 1) Disabled modem devices are no longer added..
- (d) Code Reviewed by: Rebecca
- 3. CHANGE: WAN PPP/SLIP connection status and speed not shown correctly
- (a) Procedure:
  - 1) Launch toolbar
  - 2) Open eSettings
  - 3) Switch to network information page
  - 4) Connect through WAN PPP/SLIP connection
  - 5) Speed and connection status information is not correct
- (b) Root cause:
  - 1) WMI does not provide information regarding WAN PPP/SLIP connection
- (c) Solution:
  - 1) Change information provider to use completely IPHelper API set.
- (d) Code Reviewed by: Rebecca
- 4. FIX: (DT) sensor information not displayed correctly
- (a) Procedure:
  - 1) Launch toolbar
  - 2) Open esettings
  - 3) Switch to monitoring page
  - 4) Ocassionally, sensor information is not displayed correctly
- (b) Root cause:
  - 1) Information received from sensor is sometimes wrong
- (c) Solution:
  - 1) Added more fault handling
- (d) Code Reviewed by: Christian

- 2.03.2017, June 1, 2006

- i. Issues Solved

- 1. CHANGE: BIOS password input character set updated to accept special characters

- (a) Procedure

- 1) Launch toolbar

- 2) Open eSettings
  - 3) Open BIOS passwords page
  - 4) Create a password with the following characters “–  
=] [ ; . , \ / ”
  - 5) Invalid character error
- (b) Root cause:
  - 1) The characters were invalid
- (c) Solution
  - 1) Add characters to valid set
- (d) Code Reviewed by: Rebecca
- 2. FIX: (Desktop) Monitoring threshold change is honored now.
  - (a) Procedure:
    - 1) Launch toolbar
    - 2) Open eSettings
    - 3) Open Monitoring Page, switch to temperature page,  
modify threshold
    - 4) Close tool bar
    - 5) Repeat step 1-3, modified threshold is not kept.
  - (b) Root cause:
    - 1) New threshold information was not updated to ui.
  - (c) Solution:
    - 1) Properly update ui.
  - (d) Code Reviewed by: Rebecca
- 3. CHANGE: (Desktop) Threshold.xml location change
  - (a) The file will now be installed in BaseFolder.
- ii. Known issues
  - 1. When multiple users are logged in, only the first logged in user  
will see Video information. This is WMI limitation

- 2.03.2016, May 12, 2006

- i. Issues Solved

- 1. FIX: Typo, RC410ME string when click ok button , system
    - 2. FIX: Monitoring page stops working after closing and re  
opening
  - (a) Procedure:
    - 1) Launch toolbar
    - 2) Open eSettings
    - 3) Switch to monitoring page
    - 4) Close eSettings, repeat step 2 and 3

- 5) Readings are no longer updated
- (b) Root cause:
  - 1) Event chain is broken after closing page
- (c) Solution
  - 1) Correctly connect event chain
- (d) Code Reviewed by: PJ, Rebecca
- 3. FIX: 64bit OS limited user account issue
- (a) Procedure
  - 1) Log in as limited user
  - 2) Launch ETF
  - 3) Open eSettings, no data is displayed
- (b) Root cause:
  - 1) In 64 bit XP, Performance Counter and win32\_diskdrive class has different behaviour than 32bit and caused error
- (c) Solution:
  - 1) Handle error condition
- (d) Code Reviewed by: PJ, Rebecca
- 4. FIX: Added error handling when Performance counter registry is corrupt
- (a) Procedure:
  - 1) Launch Toolbar
  - 2) Open eSettings
  - 3) No data is displayed
- (b) Root cause: the performance counter cannot be read due to corrupt registry
- (c) Solution
  - 1) Handle error condition
  - 2) No information will be shown for the performance counter
- (d) Code Reviewed by: PJ, Rebecca
- 5. FIX: (Desktop) Added PCI ID entry for Husky
- 6. FIX: (Desktop) ITE chip library has div by zero error
- (a) Procedure:
  - 1) Launch toolbar
  - 2) Open eSettings
  - 3) Monitoring page doesn't work properly
- (b) Root Cause:
  - 1) A divide by zero exception is generated by ITE chip library
- (c) Solution

- 1) Handle chip library exception.
  - (d)Code Reviewed by: PJ, Rebecca
- 7. FIX: (Desktop) ITE chip component has wrong type cast
  - (a) Procedure:
    - 1) Launch toolbar
    - 2) Open eSettings
    - 3) Open Monitoring Page, switch to voltage view, wrong voltage is displayed
  - (b)Root cause:
    - 1) Wrong type cast when getting information cause data truncation
  - (c) Solution:
    - 1) Correct typecast
  - (d)Code Reviewed by: PJ, Rebecca
- 2.03.2015, April 20, 2006
  - i. Issues Solved
    - 1. FIX: Issue 0058: No error handling & checking to avoid the user by Manual Install the eSetting AP(full / lite) version to Veriton or AcerPower model.
      - (a) Procedure:
        - 1) Install eSettings withouth lite parameter
      - (b)Solution:
        - 1) we check machine product name on desktops for the following string "Veriton"
      - (c) Code Reviewed by: Christian Huang
    - 2. Fix: Myall2, French OS install, eSettings fails to display data
      - (a) Procedure:
        - 1) Launch Framework toolbar
        - 2) Launch eSettings, this fails
      - (b)Root Cause:
        - 1) when getting information from WMI repository, path name from French OS contains invalid character, causing exception.
      - (c) Solution:
        - 1) properly quote invalid characters.
      - (d)Code Reviewed by: Christian Huang.
- V2.03.2014 April 14, 2006

- i. Issues Solved
    - 1. FIX: remove small white window.
    - 2. FIX: force refresh when data is loaded to system information
- V2.03.2013 April 11, 2006
  - i. Issues Solved
    - 1. FIX: add range check in boot option page to avoid issues when the control returns invalid input.
    - 2. FIX: set eSettingsConfig.xml islite to true
    - 3. FIX: add length check when parsing SMBIOS structures
- V2.03.2012 April 4, 2006
  - i. Issues Solved
    - 1. ADD: 64 bit support
    - 2. FIX: handle Desktop bios boot sequence not properly terminated issue.
- V2.03.2011 March 31, 2006
  - i. Issues Solved
    - 1. CHANGE: Modify lanscope monitoring to use messages
    - 2. FIX: when no video driver is installed, handle it gracefully.
- V2.03.2010 March. 28, 2006
  - i. Issues Solved
    - 1. CHANGE: Wording changes, capitalization rule update
    - 2. CHANGE: HyperThreading and DualCore status is now hidden if disabled
    - 3. CHANGE: Serial / IR/ Parallel port is hidden if disabled
    - 4. CHANGE: WMI Event handling implementation changes.
    - 5. CHANGE: Memory slot with 0 byte is displayed as not installed now.
    - 6. CHANGE: TVicPort
- V2.03.2009 March 15, 2006
  - i. Issues Solved
    - 1. CHANGE: Modem changes are now detected, network information page is updated automatically
    - 2. CHANGE: Audio changes are now detected, audio information page is updated automatically

- 3. CHANGE: Video changes are now detected, video information page is updated automatically
- V2.03.2008 March 13, 2006
  - i. Issues Solved
    - 1. FIX: Chipset name update
    - 2. FIX: Filter out 1394 network adapter information
- V2.03.2007 March 6, 2006
  - i. Issues Solved
    - 1. FIX: Chipset name update
- V2.03.2006 March 5, 2006
  - i. Issues Solved
    - 1. FIX: WMI HDD detection routine, limited account issue.
    - 2. FIX: Set max input limit length (32) to Asset Tag text box
- V2.03.2005 March 2, 2006
  - i. Issues Solved
    - 1. FIX: framework exit issue. Only start lanscope monitor thread when ui page is launched.
    - 2. CHANGE: update export dialog titles
    - 3. CHANGE: BIOS password length limit set to 1~8 chars
    - 4. FIX: remove wrong pci id entry, update ATI RS482/RX482 entry
    - 5. CHANGE: AMD 64 cpu bus speed detection update
    - 6. CHANGE: Move sensor initialization step to ui page switch
    - 7. CHANGE: VIDEO information is refreshed when page switch occurs
    - 8. CHANGE: Asset tag now filters strings of blank characters
- V2.03.2004 February 23, 2006
  - i. Issues Solved
    - 1. Lanscope check, when lanscope is enabled, boot option is disabled.
    - 2. Tooltip: the tooltip will now show the system uptime, update interval is 60 seconds
    - 3. ITE sensor library update
    - 4. Limited user account is now allowed , Guest user is restricted



## 5. Null reference check when accessing network information