



Intel[®] Management Engine BIOS Extension 7.0.0.0054 Release Notes

Intel[®] 6 Series Express Chipset

February 2011

Intel Confidential

DISCLAIMER: Information in this document is provided in connection with Intel products. No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document. Except as provided in Intel's Terms and Conditions of Sale for such products, Intel assumes no liability whatsoever, and Intel disclaims any express or implied warranty relating to sale and/or use of Intel products, including liability or warranties relating to fitness for a particular purpose, merchantability or infringement of any patent, copyright or other intellectual property right. Intel products are not intended for use in medical, lifesaving, or life-sustaining applications.

Intel may make changes to specifications and product descriptions at any time, without notice.

Contact your local Intel sales office or your distributor to obtain the latest specifications and before placing your product order.

* Other names and brands may be claimed as the property of others.

Copyright © Intel Corporation 2010

This document contains information on products in the design phase of development. The information herein is subject to change without notice. Do not finalize a design with this information.

Revision History

Date	Revision	Draft/Changes
February 19, 2010	7.0.0.0023	Intel® Management Engine BIOS Extension
March 30, 2010	7.0.0.0026	Intel® Management Engine BIOS Extension
May 11, 2010	7.0.0.0033	Intel® Management Engine BIOS Extension
June 1, 2010	7.0.0.0036	Intel® Management Engine BIOS Extension
July 12, 2010	7.0.0.0041	Intel® Management Engine BIOS Extension
July 30, 2010	7.0.0.0042	Intel® Management Engine BIOS Extension
August 10, 2010	7.0.0.0043	Intel® Management Engine BIOS Extension
September 21, 2010	7.0.0.0046	Intel® Management Engine BIOS Extension
September 21, 2010	7.0.0.0047	Intel® Management Engine BIOS Extension
September 29, 2010	7.0.0.0048	Intel® Management Engine BIOS Extension
October 7, 2010	7.0.0.0049	Intel® Management Engine BIOS Extension
October 11, 2010	7.0.0.0050	Intel® Management Engine BIOS Extension
October 20, 2010	7.0.0.0051	Intel® Management Engine BIOS Extension
November 1, 2010	7.0.0.0052	Intel® Management Engine BIOS Extension
November 10, 2010	7.0.0.0053	Intel® Management Engine BIOS Extension
February 07, 2011	7.0.0.0054	Intel® Management Engine BIOS Extension

New Features

New Features (or changes) in < Build name and number >	
Reference No.	Description
New Features in Intel® Management Engine BIOS Extension 7.0.0.0023	
N/A	Intel® MEBX 7.0.0.0023 is compatible with firmware 7.0.0.1008 or later
New Features in Intel® Management Engine BIOS Extension 7.0.0.0026	
N/A	Intel® MEBX 7.0.0.0026 is compatible with firmware 7.0.0.1017 or later
1023185	Register based ME enable support added.
New Features in Intel® Management Engine BIOS Extension 7.0.0.0033	
N/A	Intel® MEBX 7.0.0.0033 is compatible with firmware 7.0.0.1037 or later
New Features in Intel® Management Engine BIOS Extension 7.0.0.0036	
N/A	Intel® MEBX 7.0.0.0036 is compatible with firmware 7.0.0.1047 or later
New Features in Intel® Management Engine BIOS Extension 7.0.0.0041	
N/A	Intel® MEBX 7.0.0.0041 is compatible with firmware 7.0.0.1065 or later
New Features in Intel® Management Engine BIOS Extension 7.0.0.0042	
N/A	Intel® MEBX 7.0.0.0042 is compatible with firmware 7.0.0.1076 or later
New Features in Intel® Management Engine BIOS Extension 7.0.0.0043	
N/A	Intel® MEBX 7.0.0.0043 is compatible with firmware 7.0.0.1076 or later
New Features in Intel® Management Engine BIOS Extension 7.0.0.0046	
N/A	Intel® MEBX 7.0.0.0047 is compatible with firmware 7.0.0.1097 or later
New Features in Intel® Management Engine BIOS Extension 7.0.0.0047	
N/A	Intel® MEBX 7.0.0.0047 is compatible with firmware 7.0.0.1105 or later
New Features in Intel® Management Engine BIOS Extension 7.0.0.0048	

N/A	Intel® MEBX 7.0.0.0048 is compatible with firmware 7.0.0.1110 or later
New Features in Intel® Management Engine BIOS Extension 7.0.0.0049	
N/A	Intel® MEBX 7.0.0.0049 is compatible with firmware 7.0.0.1117 or later
New Features in Intel® Management Engine BIOS Extension 7.0.0.0050	
N/A	Intel® MEBX 7.0.0.0050 is compatible with firmware 7.0.0.1120 or later
New Features in Intel® Management Engine BIOS Extension 7.0.0.0051	
N/A	Intel® MEBX 7.0.0.0051 is compatible with firmware 7.0.0.1137 or later
New Features in Intel® Management Engine BIOS Extension 7.0.0.0052	
N/A	Intel® MEBX 7.0.0.0052 is compatible with firmware 7.0.0.1142 or later
New Features in Intel® Management Engine BIOS Extension 7.0.0.0053	
N/A	Intel® MEBX 7.0.0.0053 is compatible with firmware 7.0.0.1142 or later
New Features in Intel® Management Engine BIOS Extension 7.0.0.0054	
N/A	Intel® MEBX 7.0.0.0054 is compatible with firmware 7.0.0.1197 or later

Resolved Issues

Resolved Issues in <Build name and Number>	
Reference No.	Description
<i>Issues Resolved in Intel® Management Engine BIOS Extension 7.X.X.XXXX</i>	
N/A	N/A
<i>Issues Resolved in Intel® Management Engine BIOS Extension 7.0.0.0023</i>	
N/A	N/A
<i>Issues Resolved in Intel® Management Engine BIOS Extension 7.0.0.0026</i>	
N/A	<i>Remove FW Update portion of Intel® MEBx Sync Structure</i>
N/A	<i>Disable KVM/IDER/SOL in sync structure when AMT is disabled</i>
N/A	<i>MEBx should goto Intel Contact Screen (SC61) when Support Channel ID is 0 and to Market Place Screen (SC6) id SCID is non-zero</i>
N/A	<i>Changed the sentence in SC5 screen from "Press F2 to allow SP to connect to your computer" to "Press ENTER to allow sp to connect to your computer".</i>
N/A	<i>Cleaned up the Verbose Flag implementation. Removed the bypassVideo flag and made sure all the logic for Initializing Video is controlled by just Non_Verbose_Mode flag</i>
N/A	<i>Added XML strings for Host Based Provisioning.</i>
N/A	<i>The Option Screen was missing "3. Proxy Server Settings" option which blocked the user from getting into Proxy Screen. Added the change.</i>
N/A	<i>Fixing UI Scrolling hang/reset issues.</i>
N/A	<i>Added Polling logic for RPAT Enrollment in USB Provisioning.</i>
N/A	<i>Removed ACL from USB Provisioning.</i>
N/A	<i>Removed blocked RPAT APIs in USB Provisioning when the AMT is in "IN" State.</i>
N/A	<i>Moved the "Connecting with MSP" print statement to next line so that it doesn't overlap with the previous line.</i>
N/A	<i>CPT FW-BIOS RPAT: When enrolled with passcodeless Proactive session and additional enrollments auto-connect to passcodeless errors with "Invalid Passcode" message and Wizard exits with exception error.</i>
<i>Issues Resolved in Intel® Management Engine BIOS Extension 7.0.0.0033</i>	

N/A	<i>Fixed Opt-in state with USB provisioning</i>
N/A	<i>Fixed KVM feature update with USB provisioning</i>
N/A	<i>Hide all the AMT related option when AMT state is disabled</i>
N/A	<i>RPAT UI spec change RCR</i>
N/A	<i>reduce HECI timeouts</i>
N/A	<i>Added logic to hide "Activate Network Settings" when system is in Post Provision State</i>
N/A	<i>Changed HTTP Proxy Screen – Removed the Username and Password options in the screen and increased the proxy address max value to 60 from 40.</i>
N/A	<i>Removed IPT</i>
N/A	<i>Added logic to redirect the user to Connected to CCK screen when AMTHI status is DATA_MISSING</i>
N/A	<i>Remove handling of RTC clear upon first boot as Unconfigure ME indication</i>
N/A	<i>KVM Opt In Policy Lock</i>
N/A	<i>Fixed USB provisioning with a record larger than 512 bytes shows failure</i>
N/A	<i>Fixed Error in Proxy Screen makes it unusable</i>
N/A	<i>Blocking privacy settings updates by redirection session User</i>
N/A	<i>Added logic to skip StartConfig in USB when FW is in "IN" provision state</i>
N/A	<i>Fixed all the Display messages and added Disconnect APIs for the missing flows in USB Provisioning</i>
<i>Issues Resolved in Intel® Management Engine BIOS Extension 7.0.0.0036</i>	
N/A	<i>Added "User configuration screens are not available while remote KVM session is active" string</i>
N/A	<i>If there is only one MSP present, screen after Short Privacy screen should be Connection-Hub Screen</i>
N/A	<i>Added the missing word "full" in Privacy and Terms screen</i>
N/A	<i>MEBx needs to check the connection status every time the user enters the "Connected with MSP" screen. Though MEBx was checking the status while entering the screen, it was always going to "Connected with MSP" screen and not to "Connectivity Error" screen if there is no connection.</i>
N/A	<i>Typo error in Market Place screen Footer. Instead of giving option F1 and F2, MEBx was displaying twice F1.</i>
N/A	<i>One sentence in "Connectivity Error" screen was missed. Added the line in the screen.</i>
N/A	<i>User is prompted with a Yes/No option to disconnect from the Connected to RPAS screen. When the user chooses "N", he should stay in the same screen without disconnecting. User is taken from "Connected to RPAS" screen to "Connected to MSP screen".</i>

	Changed this logic so that user stays in "Connected to RPAS" screen.
N/A	After discussing with the architects, the max timeout value was increased to 2min across RPAT wizard and USB provisioning.
N/A	Unified global resets.
N/A	When F1 is pressed in the Connect With Passcode screen, Screen will refresh
N/A	Added Shared IP error message
<i>Issues Resolved in Intel® Management Engine BIOS Extension 7.0.0.0041</i>	
N/A	CPU Brand Type message flow modification
N/A	Fixed error array offset issue so correct errors are displayed
N/A	Change MEBx header to include the MEBx version information.
N/A	Fix logic for OEMFlag Bit 0.
N/A	Fix string issue with KVM update
N/A	MEBX - Wireless IPV6 settings missing from MEBX
N/A	Fixed the TTL issue to accept values from 0 to $(2^{32}-1)$ 4294967295.
N/A	USB scrambling changes for USB provisioning
N/A	USB provisioning changes for Host Based Provisioning.
N/A	Fix screen display when waiting for network connection
N/A	Fix multiple keystroke issue when using new CIRA/CILA flow
N/A	Increase the number of hashes in MEBx from 23 to 33
N/A	Remove Exit flag to fix problem: MEBx option for "Local FW Update" causes MEBx exit when changed
<i>Issues Resolved in Intel® Management Engine BIOS Extension 7.0.0.0042</i>	
N/A	Removed ME State control from MEBx UI
N/A	Removed RPAT from MEBx
N/A	GetCpuBrandClass MSR register definition has been changed
<i>Issues Resolved in Intel® Management Engine BIOS Extension 7.0.0.0043</i>	
N/A	Update IPV6 interface ID UI to only accept 16 characters and force the 17 th character to be NULL
N/A	For Q65 Sku MEBx was not showing the third option 'All' for OptinPolicy
N/A	Modified ASCII conversion in USB provisioning to accept all provision address

<i>Issues Resolved in Intel® Management Engine BIOS Extension 7.0.0.0046</i>	
N/A	Changed the check to determine Consumer state through CorpState API to Platform Type.
N/A	Fix IPV6 USB provisioning to sync with USB spec.
N/A	Fix error message on shared IP failure
N/A	Remove the summary screen from the MEBx UI
N/A	Implemented WA for L3 upgrade issue – removed consumer check from MEBx
N/A	Fix the IPV6 offset length values
<i>Issues Resolved in Intel® Management Engine BIOS Extension 7.0.0.0047</i>	
N/A	MEBX needs to check for non-normal state earlier to remove unnecessary delay
N/A	Fixed memory corruption issue wrt to TTL parameter.
<i>Issues Resolved in Intel® Management Engine BIOS Extension 7.0.0.0048</i>	
N/A	Removed HECI Pointer Mismatch and added logic in GetMKHI Version (1st Heci call in MEBx)
N/A	Added Brand type check for the Get and Set AMT APIs in MEBx
<i>Issues Resolved in Intel® Management Engine BIOS Extension 7.0.0.0049</i>	
N/A	Change CPU Replacement Confirmation Handling to Lessen Impact on Manufacturing Line
<i>Issues Resolved in Intel® Management Engine BIOS Extension 7.0.0.0050</i>	
N/A	Fix multiple input issue in CILA/CIRA flow
N/A	Fix keyboard polling logic to be more responsive to user input.
<i>Issues Resolved in Intel® Management Engine BIOS Extension 7.0.0.0051</i>	
N/A	Fixed MEBx security issues.
N/A	Hide FW Update menu in BIOS and MEBx when the lock bit is set via FITC.
<i>Issues Resolved in Intel® Management Engine BIOS Extension 7.0.0.0052</i>	
N/A	Fix problem with HBP screen transitions.
N/A	Fix MEBx version in the MEBx header.
N/A	Increase SMBIOS table buffer size to accommodate server data.
<i>Issues Resolved in Intel® Management Engine BIOS Extension 7.0.0.0053</i>	
N/A	Fixed logic to send UUID when AMT is disabled

<i>Issues Resolved in Intel® Management Engine BIOS Extension 7.0.0.0054</i>	
N/A	MEBX to support JKT CPU ID and return brand class info to ME
N/A	Resolved user entry to AMT/L3 Configuration menu when L3 is disabled
N/A	Fixed Global reset initiated by MEBx occurs on second boot if CPU is replaced with different CPUID and CPU Brand
N/A	Fixed Q65 MEBX KVM items issue. When Standard Manageability SKU is being used KVM should not be displayed in the title or submenu.
N/A	Fixed Fix memory corruption in the audit record.
N/A	Suppress verbose output during table updates when non-verbose mode is set.