

Intel® Management Engine (Intel® ME) for Kabylake Platform Framework BIOS Initialization Code Version 3.7.6

Release Notes

August 2019

Revision 3.7.6

Intel Restricted Secret



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1 Introduction

- Product: Intel[®] Management Engine (Intel[®] ME) for Kabylake Platform Framework BIOS Initialization Code
- Developed by: Intel Corporation
- Software version released date: <August 2019>

Note: This document is cumulative and includes information on previous versions. The version information is presented with the newest release first and then regressing through earlier versions.

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Note: This sample code is to be used in accordance with the DCL document that came with the samples. Refer to the DCL for intended purpose of the sample and recommendations for testing that should not be performed with these samples.

1.1 Purpose of Intel® Management Engine BIOS Initialization Code

This document accompanies Framework Intel® Management Engine for Kabylake Platform Initialization Code Spec. The purpose of this document is to describe the changes in Framework Intel® Management Engine for Kabylake Platform Initialization Code starting from Pre – Alpha 0.5 that directly impacts the Intel ME components functions and code integration to help customers better understand the changes and to help them access their validation plans for each Initialization code release after 0.5.

Note this document may doesn't cover all (line by line) the Initialization code changes but is intended to cover the main changes in ME Initialization code.

1.2 Target Customers

The ME SiC code is intended for use as part of Intel BIOS. The code is compatible with both mobile and desktop products.



1.3 Version Release History

Version	Description	Pologgo Date
Version	Description	Release Date
0.5.0	Initial Release	December 2015
0.6.0	Updates to all other Kabylake platforms and supported OS.	January 2016
0.6.1	Alpha update	January 2016
0.7.0	Updates to all other Kabylake platforms and supported OS.	Feburary 2016
0.7.1	Beta release update	March 2016
0.7.2	Updates to all other Kabylake platforms and supported OS.	March 2016
0.7.3	Updates to all other Kabylake platforms and supported OS.	April 2016
0.8.0	Updates to all other Kabylake platforms and supported OS.	April 2016
0.8.1	Updates to all other Kabylake platforms and supported OS.	May 2016
0.9.0	Updates to all other Kabylake platforms and supported OS.	May 2016
0.9.1	Updates to all other Kabylake platforms and supported OS.	June 2016
1.0.0	PV release update.	June 2016
1.0.1	Updates to all other Kabylake platforms and supported OS.	June 2016
1.0.2	Updates to all other Kabylake platforms and supported OS.	July 2016
1.0.3	Updates to all other Kabylake platforms and supported OS.	July 2016
1.0.4	Updates to all other Kabylake platforms and supported OS.	Augest 2016
1.0.5	Updates to all other Kabylake platforms and supported OS.	Augest 2016
1.1.0	Updates to all other Kabylake platforms and supported OS.	September 2016
1.2.0	Updates to all other Kabylake platforms and supported OS.	October 2016
1.3.0	Updates to all other Kabylake platforms and supported OS.	October 2016
1.4.0	Updates to all other Kabylake platforms and supported OS.	November 2016
1.4.1	Updates to all other Kabylake platforms and supported OS.	November 2016
1.5.0	Updates to all other Kabylake platforms and supported OS.	December 2016
1.6.0	Updates to all other Kabylake platforms and supported OS.	January 2017
1.7.0	Updates to all other Kabylake platforms and supported OS.	February 2017
1.8.0	Updates to all other Kabylake platforms and supported OS.	February 2017
1.9.0	Updates to all other Kabylake platforms and supported OS.	March 2017
2.0.0	Updates to all other Kabylake platforms and supported OS.	March 2017
2.1.0	Updates to all other Kabylake platforms and supported OS.	April 2017
2.2.0	Updates to all other Kabylake platforms and supported OS.	April 2017
2.3.0	Updates to Coffeelake with PCH Z370 platform support.	May 2017
2.4.0	Updates to Coffeelake with PCH Z370 platform support.	June 2017
2.5.0	Updates to all other Kabylake platforms and supported OS.	June 2017
2.5.1	Updates to all other Kabylake platforms and supported OS.	July 2017



2.6.0	Updates to all other Kabylake platforms and supported OS.	July 2017
2.6.1	Updates to all other Kabylake platforms and supported OS.	August 2017
2.6.2	Updates to all other Kabylake platforms and supported OS.	August 2017
2.7.0	Updates to all other Kabylake platforms and supported OS.	August 2017
2.7.1	Updates to all other Kabylake platforms and supported OS.	August 2017
2.7.2	Updates to all other Kabylake platforms and supported OS.	September 2017
2.8.0	Updates to all other Kabylake platforms and supported OS.	September 2017
2.8.1	Updates to all other Kabylake platforms and supported OS.	October 2017
2.9.0	Updates to all other Kabylake platforms and supported OS.	October 2017
2.9.2	Updates to all other Kabylake platforms and supported OS.	November 2017
3.0.0	Updates to all other Kabylake platforms and supported OS.	December 2017
3.1.0	Updates to all other Kabylake platforms and supported OS.	December 2017
3.1.1	Updates to all other Kabylake platforms and supported OS.	February 2018
3.1.2	Updates to all other Kabylake platforms and supported OS.	March 2018
3.2.0	Updates to all other Kabylake platforms and supported OS.	April 2018
3.2.1	Updates to all other Kabylake platforms and supported OS.	May 2018
3.3.0	Updates to all other Kabylake platforms and supported OS.	May 2018
3.4.0	Updates to all other Kabylake platforms and supported OS.	June 2018
3.5.0	Updates to all other Kabylake platforms and supported OS.	June 2018
3.6.0	Updates to all other Kabylake platforms and supported OS.	July 2018
3.6.1	Updates to all other Kabylake platforms and supported OS.	July 2018
3.6.2	Updates to all other Kabylake platforms and supported OS.	August 2018
3.6.3	Updates to all other Kabylake platforms and supported OS.	September 2018
3.6.4	Updates to all other Kabylake platforms and supported OS.	October 2018
3.6.5	Updates to all other Kabylake platforms and supported OS.	October 2018
3.6.6	Updates to all other Kabylake platforms and supported OS.	November 2018
3.6.7	Updates to all other Kabylake platforms and supported OS.	November 2018
3.6.7.1	Updates to all other Kabylake platforms and supported OS.	December 2018
3.6.8	Updates to all other Kabylake platforms and supported OS.	December 2018
3.6.9	Updates to all other Kabylake platforms and supported OS.	January 2019
3.7.0	Updates to all other Kabylake platforms and supported OS.	March 2019
3.7.1	Updates to all other Kabylake platforms and supported OS.	March 2019
3.7.2	Updates to all other Kabylake platforms and supported OS.	April 2019
3.7.3	Updates to all other Kabylake platforms and supported OS.	May 2019
3.7.4	Updates to all other Kabylake platforms and supported OS.	June 2019
3.7.5	Updates to all other Kabylake platforms and supported OS.	June 2019
3.7.6	Updates to all other Kabylake platforms and supported OS.	August 2019



2 Version 3.7.6 Details

This version is based on Intel $^{\circledR}$ Management Engine Framework BIOS Initialization Code 3.7.6

2.1 New Features

None

2.2 Fixed Bugs



3 Version 3.7.5 Details

This version is based on Intel $^{\circledR}$ Management Engine Framework BIOS Initialization Code 3.7.5

3.1 New Features

None

3.2 Fixed Bugs



4 Version 3.7.4 Details

This version is based on Intel $^{\circledR}$ Management Engine Framework BIOS Initialization Code 3.7.4

4.1 New Features

None

4.2 Fixed Bugs



5 Version 3.7.3 Details

This version is based on $Intel^{\circledR}$ Management Engine Framework BIOS Initialization Code 3.7.3

5.1 New Features

None

5.2 Fixed Bugs



6 Version 3.7.2 Details

This version is based on Intel $^{\circledR}$ Management Engine Framework BIOS Initialization Code 3.7.2

6.1 New Features

None

6.2 Fixed Bugs



7 Version 3.7.1 Details

This version is based on Intel $^{\circledR}$ Management Engine Framework BIOS Initialization Code 3.7.1

7.1 New Features

None

7.2 Fixed Bugs



8 Version 3.7.0 Details

This version is based on Intel® Management Engine Framework BIOS Initialization Code $3.7.0\,$

8.1 New Features

None

8.2 Fixed Bugs



9 Version 3.6.9 Details

This version is based on Intel $^{\circledR}$ Management Engine Framework BIOS Initialization Code 3.6.9

9.1 New Features

None

9.2 Fixed Bugs



10 Version 3.6.8 Details

This version is based on $Intel^{\circledR}$ Management Engine Framework BIOS Initialization Code 3.6.8

10.1 New Features

None

10.2 Fixed Bugs



11 Version 3.6.7.1 Details

This version is based on Intel $^{\circledR}$ Management Engine Framework BIOS Initialization Code 3.6.7.1

11.1 New Features

None

11.2 Fixed Bugs

None



12 Version 3.6.7 Details

This version is based on Intel $^{\circledR}$ Management Engine Framework BIOS Initialization Code 3.6.7

12.1 New Features

None

12.2 Fixed Bugs



13 Version 3.6.6 Details

This version is based on Intel® Management Engine Framework BIOS Initialization Code 3.6.6

13.1 New Features

None

13.2 Fixed Bugs

13.2.1 Bug1

• Description/Solution:

Return function status with corresponding MKHI status.

Affected Files

KabylakeSiliconPkg/Me/Include/Library/DxeMeLib.h KabylakeSiliconPkg/Me/Include/MkhiMsgs.h KabylakeSiliconPkg/Me/Library/DxeMeLib/HeciMsgDxeLib.c



14 Version 3.6.5 Details

This version is based on Intel $^{\circledR}$ Management Engine Framework BIOS Initialization Code 3.6.5

14.1 New Features

None

14.2 Fixed Bugs



15 Version 3.6.4 Details

This version is based on $Intel^{\circledR}$ Management Engine Framework BIOS Initialization Code 3.6.4

15.1 New Features

None

15.2 Fixed Bugs



16 Version 3.6.3 Details

This version is based on $Intel^{\circledR}$ Management Engine Framework BIOS Initialization Code 3.6.3

16.1 New Features

None

16.2 Fixed Bugs

16.2.1 Bug1

• Description/Solution:

BIOS must send EOP in recovery with error modes. Unconditionally Allowed EoP message in HECI driver.

Affected Files

KabylakeSiliconPkg/Me/HeciInit/Dxe/MeInit.c

Kabylake Silicon Pkg/Me/HeciInit/Dxe/MeInitFsp.c

KabylakeSiliconPkg/Me/Library/Private/PeiDxeHeciInitLib/HeciCore.c



17 Version 3.6.2 Details

This version is based on Intel $^{\circledR}$ Management Engine Framework BIOS Initialization Code 3.6.2

17.1 New Features

None

17.2 Fixed Bugs



18 Version 3.6.1 Details

This version is based on Intel $^{\circledR}$ Management Engine Framework BIOS Initialization Code 3.6.1

18.1 New Features

None

18.2 Fixed Bugs



19 Version 3.6.0 Details

This version is based on Intel $^{\circledR}$ Management Engine Framework BIOS Initialization Code 3.6.0

19.1 New Features

None

19.2 Fixed Bugs



20 Version 3.5.0 Details

This version is based on Intel $^{\circledR}$ Management Engine Framework BIOS Initialization Code 3.5.0

20.1 New Features

None

20.2 Fixed Bugs

20.2.1 Bug1

• Description/Solution:

JHI validation failing on KBL-YR Pre-Production Parts.

Affected Files

/KabylakeSiliconPkg/Me/Library/Private/DxeBeihaiLib/BeihaiPlugin.c



21 Version 3.4.0 Details

This version is based on Intel $^{\circledR}$ Management Engine Framework BIOS Initialization Code 3.4.0

21.1 New Features

None

21.2 Fixed Bugs



22 Version 3.3.0 Details

This version is based on Intel $^{\rm @}$ Management Engine Framework BIOS Initialization Code 3.3.0

22.1 New Features

None

22.2 Fixed Bugs



23 Version 3.2.1 Details

This version is based on Intel $^{\circledR}$ Management Engine Framework BIOS Initialization Code 3.2.1

23.1 New Features

None

23.2 Fixed Bugs

None



24 Version 3.2.0 Details

This version is based on Intel $^{\circledR}$ Management Engine Framework BIOS Initialization Code 3.2.0

24.1 New Features

None

24.2 Fixed Bugs

• Description/Solution:

Fix JHI validation issue on KBL-Platforms(U/Y/S and H).

Affected Files

/KabylakeSiliconPkg/Me/Jhi/Dxe/Jhid.c



25 Version 3.1.2 Details

This version is based on Intel $^{\circledR}$ Management Engine Framework BIOS Initialization Code 3.1.2

25.1 New Features

None

25.2 Fixed Bugs



26 Version 3.1.1 Details

This version is based on Intel $^{\circledR}$ Management Engine Framework BIOS Initialization Code 3.1.1

26.1 New Features

None

26.2 Fixed Bugs



27 Version 3.1.0 Details

This version is based on $Intel^{\circledR}$ Management Engine Framework BIOS Initialization Code 3.1.0

27.1 New Features

None

27.2 Fixed Bugs

27.2.1 Bug1

• Description/Solution:

Fix Klocwork issues for ME BIOS.

Affected Files

/KabylakeSiliconPkg/Me/IntegratedTouch/IntegratedTouch.c



28 Version 3.0.0 Details

This version is based on Intel $^{\circledR}$ Management Engine Framework BIOS Initialization Code 3.0.0

28.1 New Features

None

28.2 Fixed Bugs

28.2.1 Bug1

• Description/Solution:

While Bus master being disabled on HECI preventins transmission of touch data to UEFI Intel® Precise Touch driver.

Affected Files

/KabylakeSiliconPkg/Me/IntegratedTouch/IntegratedTouch.c /KabylakeSiliconPkg/Me/IntegratedTouch/IntegratedTouchPrivate.h



29 Version 2.9.2 Details

This version is based on Intel® Management Engine Framework BIOS Initialization Code 2.9.2

29.1 New Features

None

29.2 Fixed Bugs

29.2.1 Bug1

• Description/Solution:

Fixed issue Intel® Precise Touch does not work while VT-d Enabled..

Affected Files

/KabylakeSiliconPkg/Me/IntegratedTouch/IntegratedTouch.c /KabylakeSiliconPkg/Me/IntegratedTouch/IntegratedTouchPrivate.h



30 Version 2.9.0 Details

This version is based on Intel $^{\circledR}$ Management Engine Framework BIOS Initialization Code 2.9.0

30.1 New Features

None

30.2 Fixed Bugs



31 Version 2.8.1 Details

This version is based on Intel® Management Engine Framework BIOS Initialization Code 2.8.1

31.1 New Features

None

31.2 Fixed Bugs

31.2.1 Bug1

• Description/Solution:

Touch does not work when all debug logs disabled.

Affected Files

/Kabylake Silicon Pkg/Me/library/DxeTouch HeciMsgsLib/DxeTouch HeciMsgsLib.c

31.2.2 Bug2

• Description/Solution:

Fix KBL ME BIOS Klocwork issue.

Affected Files

/ Kabylake Silicon Pkg/Me/Library/Private/PeiMeInitLib/PchMeUma.c

31.2.3 Bug3

• Description/Solution:

Added code to put PTT in idle after this command, due to BIOS doesn't set TPM goIdle bit in s3 exit. That would impact no CSME PG until first TPM driver. command.

Affected Files

/KabylakeSiliconPkg/Me/Library/Private/PeiMeInitLib/PchMeUma.c



31.2.4 Bug4

• Description/Solution:

PC will stuck while MEInfo tool exxcuted in EFI Shell with iTouch is enabled.

Affected Files

/KabylakeSiliconPkg/Me/IntegratedTouch/IntegratedTouch.c

31.2.5 Bug5

• Description/Solution:

Buffer overflow in PeiHeciHsioMsg routing, due to buffer is to small to hold the response.

Affected Files

/KabylakeSiliconPkg/Me/Include/BupMsgs.h /KabylakeSiliconPkg/Me/Library/PeiMeLib/HeciMsgPeiLib.c



32 Version 2.8.0 Details

This version is based on Intel $^{\circledR}$ Management Engine Framework BIOS Initialization Code 2.8.0

32.1 New Features

None

32.2 Fixed Bugs



33 Version 2.7.2 Details

This version is based on Intel $^{\circledR}$ Management Engine Framework BIOS Initialization Code 2.7.2

33.1 New Features

None

33.2 Fixed Bugs



34 Version 2.7.1 Details

This version is based on Intel® Management Engine Framework BIOS Initialization Code 2.7.1

34.1 New Features

34.1.1 Feature 1

• Description/Solution:

Changed Debug Verbosity for ME BIOS.

• Affected Files

Kabylake Silicon Pkg/Me/Active Management/Sol/Dxe/Serial Over Lan. c

/KabylakeSiliconPkg/Me/BiosExtensionLoader/Dxe/BiosExtensionLoader.c

/KabylakeSiliconPkg/Me/BiosExtensionLoader/Dxe/UsbProvision.c

/KabylakeSiliconPkg/Me/HeciInit/Dxe/FwStsSmbios.c

/KabylakeSiliconPkg/Me/IntegratedTouch/IntegratedTouch.c

/KabylakeSiliconPkg/Me/Jhi/Dxe/Jhid.c

/KabylakeSiliconPkg/Me/Jhi/Dxe/JhiDxe.c

/KabylakeSiliconPkg/Me/Jhi/Dxe/Jhis.c

/KabylakeSiliconPkg/Me/Library/DxeMeLib/HeciMsgDxeLib.c

/KabylakeSiliconPkg/Me/library/DxeTouchHeciMsgsLib/DxeTouchHeciMsgsLib.c

 $/ Kabylake Silicon Pkg/Me/Library/PeiDxe MeShow Buffer Lib/PeiDxe MeShow Buffer Lib. \\ c$

/KabylakeSiliconPkg/Me/Library/PeiMeLib/MePolicyPeiLib.c

/KabylakeSiliconPkg/Me/Library/Private/DxeBeihaiLib/Mei.c

/KabylakeSiliconPkg/Me/Library/Private/PeiDxeHeciInitLib/HeciCore.c

/KabylakeSiliconPkg/Me/Library/Private/PeiMeInitLib/MbpData.c

/KabylakeSiliconPkg/Me/Library/Private/PeiMeInitLib/PchMeUma.c

/KabylakeSiliconPkg/Me/Ptt/Smm/PttHciSmm.c

34.2 Fixed Bugs

None



35 Version 2.7.0 Details

This version is based on Intel $^{\circledR}$ Management Engine Framework BIOS Initialization Code 2.7.0

35.1 New Features

None

35.2 Fixed Bugs



36 Version 2.6.2 Details

This version is based on Intel® Management Engine Framework BIOS Initialization Code 2.6.2

36.1 New Features

None

36.2 Fixed Bugs



37 Version 2.6.1 Details

This version is based on Intel $^{\circledR}$ Management Engine Framework BIOS Initialization Code 2.6.1

37.1 New Features

None

37.2 Fixed Bugs



38 Version 2.5.1 Details

This version is based on Intel $^{\circledR}$ Management Engine Framework BIOS Initialization Code 2.5.1

38.1 New Features

None

38.2 Fixed Bugs



39 Version 2.5.0 Details

This version is based on Intel $^{\circledR}$ Management Engine Framework BIOS Initialization Code 2.5.0

39.1 New Features

None

39.2 Fixed Bugs



40 Version 2.4.0 Details

This version is based on Intel $^{\circledR}$ Management Engine Framework BIOS Initialization Code 2.4.0

40.1 New Features

None

40.2 Fixed Bugs

None



41 Version 2.3.0 Details

This version is based on Intel $^{\circledR}$ Management Engine Framework BIOS Initialization Code 2.3.0

41.1 New Features

None

41.2 Fixed Bugs



42 Version 2.2.0 Details

This version is based on Intel® Management Engine Framework BIOS Initialization Code 2.2.0

42.1 New Features

None

42.2 Fixed Bugs

42.2.1 Bug1

• Description/Solution:

Fixed the JHI handle initialization failure.

Affected Files

/KabylakeSiliconPkg/Me/Library/Private/DxeBeihaiLib/BeihaiPlugin.c /KabylakeSiliconPkg/Me/Library/Private/DxeBeihaiLib/DxeBeihaiLib.inf /KabylakeSiliconPkg/Me/Library/Private/DxeBeihaiLib/Mei.c



43 Version 2.1.0 Details

This version is based on Intel $^{\circledR}$ Management Engine Framework BIOS Initialization Code 2.1.0

43.1 New Features

None

43.2 Fixed Bugs



44 Version 2.0.0 Details

This version is based on Intel® Management Engine Framework BIOS Initialization Code 2.0.0

44.1 New Features

None

44.2 Fixed Bugs

44.2.1 Bug1

• Description/Solution:

iTouch did not working during POST on customer platform. Changed memory allocation from pool to pages to fix.

Affected Files

/KabylakeSiliconPkg/Me/Include/Library/DxeTouchHeciMsgsLib.h /KabylakeSiliconPkg/Me/IntegratedTouch/IntegratedTouch.c /KabylakeSiliconPkg/Me/library/DxeTouchHeciMsgsLib/DxeTouchHeciMsgsLib.c

44.2.2 Bug2

• Description/Solution:

iTouch is not working even though BIOS code is returning "TouchSensorNotifyDevReady" and "TouchSensorGetDeviceInfo" passing status.

Affected Files

/KabylakeSiliconPkg/Me/Include/Library/DxeTouchHeciMsgsLib.h /KabylakeSiliconPkg/Me/IntegratedTouch/IntegratedTouch.c /KabylakeSiliconPkg/Me/library/DxeTouchHeciMsgsLib/DxeTouchHeciMsgsLib.c



45 Version 1.9.0 Details

This version is based on Intel $^{\circledR}$ Management Engine Framework BIOS Initialization Code 1.9.0

45.1.1 Feature 1

• Description/Solution:

Add EndOfFirmwareEvent for FSP to put all HECI devices to D0i3 state. There is an option available to set DisableD0I3SettingForHeci to 1 to skip putting HECI devices into D0i3 state.

Affected Files

/KabylakeSiliconPkg/Me/HeciInit/Dxe/EndOfPost.c

/KabylakeSiliconPkg/Me/HeciInit/Dxe/HeciInit.c

/KabylakeSiliconPkg/Me/HeciInit/Dxe/HeciInit.h

/KabylakeSiliconPkg/Me/HeciInit/Dxe/HeciInit.inf

/KabylakeSiliconPkg/Me/HeciInit/Dxe/HeciInitFsp.inf

/KabylakeSiliconPkg/Me/HeciInit/Dxe/MeInit.c

/KabylakeSiliconPkg/Me/HeciInit/Dxe/MeInit.h

/KabylakeSiliconPkg/Me/HeciInit/Dxe/MeInitFsp.c

45.2 Fixed Bugs

45.2.1 Bug1

• Description/Solution:

Cleared the temporary Remote Secure Erase passwords in memory after use.

Affected Files

/KabylakeSiliconPkg/Me/Library/DxeAmtLib/AmtHeciDxeLib.c



46 Version 1.8.0 Details

This version is based on Intel® Management Engine Framework BIOS Initialization Code 1.8.0

46.1.1 Feature 1

• Description/Solution:

Prevent the duplicate notify events in FSP wrapper mode.

Affected Files

/KabylakeSiliconPkg/Me/HeciInit/Dxe/MeInit.c /KabylakeSiliconPkg/Me/HeciInit/Dxe/MeInitFsp.c

46.2 Fixed Bugs

46.2.1 Bug1

• Description/Solution:

Modify KVM Query flow to avoid system hangup at BIOS POST from S4/S5, after Enter User Consent Code into VNC Viewer.

Affected Files

/KabylakeSiliconPkg/Me/Include/AsfMsgs.h /KabylakeSiliconPkg/Me/Library/DxeAmtLib/AmtHeciDxeLib.c

46.2.2 Bug2

• Description/Solution:

BIOS doesn't wait for CSME FW to complete its loading after enabling ME via HECI.

Affected Files

/KabylakeSiliconPkg/Me/Include/Library/DxeMeLib.h /KabylakeSiliconPkg/Me/Library/DxeMeLib/HeciMsgDxeLib.c



47 Version 1.7.0 Details

This version is based on Intel $^{\circledR}$ Management Engine Framework BIOS Initialization Code 1.7.0

47.1 New Features

None

47.2 Fixed Bugs



48 Version 1.6.0 Details

This version is based on Intel® Management Engine Framework BIOS Initialization Code 1.6.0

48.1 New Features

48.1.1 Feature **1**

• Description/Solution:

ME BIOS code maintain backward compatible update.

Affected Files

/KabylakeSiliconPkg/Me/Include/ConfigBlock/MePeiConfig.h
/KabylakeSiliconPkg/Me/Include/Library/DxeTouchHeciMsgsLib.h
/KabylakeSiliconPkg/Me/Library/PeiMePolicyLib/PeiMePolicyLib.c
/KabylakeSiliconPkg/Me/Library/Private/PeiMeInitLib/MeInitPostMem.c
/KabylakeSiliconPkg/Me/Library/DxeTouchHeciMsgsLib/DxeTouchHeciMsgsLib.c
/KabylakeSiliconPkg/Me/IntegratedTouch/IntegratedTouch.c

48.2 Fixed Bugs

48.2.1 Bug1

• Description/Solution:

Have MEBx to retain "ME Unconfig on RTC Clear State" settings as following BIOS settings.

Affected Files

/KabylakeSiliconPkg/Me/Include/ConfigBlock/MePeiConfig.h /KabylakeSiliconPkg/Me/Include/Library/DxeAmtPolicyLib.h /KabylakeSiliconPkg/Me/Include/Library/DxeMePolicyLib.h /KabylakeSiliconPkg/Me/Include/Private/Library/MeInitLib.h /KabylakeSiliconPkg/Me/Library/DxeAmtPolicyLib/DxeAmtPolicyLib.c /KabylakeSiliconPkg/Me/Library/DxeMePolicyLib/DxeMePolicyLib.c



/KabylakeSiliconPkg/Me/Library/Private/PeiMeInitLib/MbpDebugPrint.c

48.2.2 Bug2

• Description/Solution:

JHI connect message was returning buffer to small, but no retry status bring up to the original caller before retry. Solution to return it to the called of HECI recieve so they can handle it accordingly.

Affected Files

/KabylakeSiliconPkg/Me/Library/Private/PeiDxeHeciInitLib/HeciCore.c

48.2.3 Bug3

• Description/Solution:

Fix iTouch unable to commnicate with MEInfo tool.

Affected Files

/KabylakeSiliconPkg/Me/Include/Protocol/IntegratedTouch.h /KabylakeSiliconPkg/Me/Include/Protocol/IntegratedTouchHid.h /KabylakeSiliconPkg/Me/IntegratedTouch/IntegratedTouch.c /KabylakeSiliconPkg/Me/IntegratedTouch/IntegratedTouch.inf /KabylakeSiliconPkg/Me/IntegratedTouch/IntegratedTouchPrivate.h

48.2.4 Bug4

• Description/Solution:

The length of Filename mismatch is observed with PDT unlock message in debug BIOS.

Affected Files

/KabylakeSiliconPkg/Me/Library/DxeMeLib/HeciMsgDxeLib.c

48.2.5 Bug5

• Description/Solution:

iTouch is not working during POST on customer platform.

Affected Files

/KabylakeSiliconPkg/Me/Include/Library/DxeTouchHeciMsgsLib.h /KabylakeSiliconPkg/Me/Include/Protocol/IntegratedTouchHid.h



/KabylakeSiliconPkg/Me/IntegratedTouch/IntegratedTouch.c /KabylakeSiliconPkg/Me/IntegratedTouch/IntegratedTouchPrivate.h /KabylakeSiliconPkg/Me/library/DxeTouchHeciMsgsLib/DxeTouchHeciMsgsLib.c /KabylakeSiliconPkg/SiPkg.dec

48.2.6 Bug6

• Description/Solution:

Fixed issue as POST time increased if ME close manuf.

Affected Files

/KabylakeSiliconPkg/Me/Library/DxeMeLib/HeciMsgDxeLib.c /KabylakeSiliconPkg/Me/MeFwDowngrade/Dxe/MeFwDowngrade.c

48.2.7 Bug7

• Description/Solution:

KBL BIOS Advertises overlapping memory resources for TPM 2.0. Create a CRS to either represent the DMA buffer and actual device resource range on the platform is configured to use the DMA buffer solution.

Affected Files

/KabylakeSiliconPkg/Me/Ptt/Smm/Ptt.asl

48.2.8 Bug8

• Description/Solution:

BIOS to implement TPM 2.0 TCG PPI 1.3 for RS2 HLK passing.

Affected Files

/KabylakeSiliconPkg/Me/Ptt/Smm/Ptt.asl /KabylakeSiliconPkg/Me/Ptt/Smm/PttHciSmm.c /KabylakeSiliconPkg/Me/Ptt/Smm/PttHciSmm.h /KabylakeSiliconPkg/Me/Ptt/Smm/PttHciSmm.inf



49 Version 1.5.0 Details

This version is based on Intel $^{\circledR}$ Management Engine Framework BIOS Initialization Code 1.5.0

49.1 New Features

None

49.2 Fixed Bugs



50 Version 1.4.1 Details

This version is based on Intel® Management Engine Framework BIOS Initialization Code 1.4.1

50.1 New Features

None

50.2 Fixed Bugs

50.2.1 Bug1

• Description/Solution:

Fixed error message '(A7)ME FW downgrade - Request MeSpiLock Failed.' popup on POST screen after clear CMOS. It due to ME BIOS needs to check FwInitComplete prior to proceeding HeciHmrfpoLock.

Affected Files

/KabylakeSiliconPkg/Me/Include/Library/DxeAmtLib.h

/KabylakeSiliconPkg/Me/Include/Library/DxeMeLib.h

/KabylakeSiliconPkg/Me/Include/Library/PeiMeLib.h

/KabylakeSiliconPkg/Me/Library/DxeAmtLib/AmtHeciDxeLib.c

/KabylakeSiliconPkg/Me/Library/DxeAmtLib/AmtPolicyDxeLib.c

/KabylakeSiliconPkg/Me/Library/DxeMeLib/HeciMsgDxeLib.c

/KabylakeSiliconPkg/Me/Library/PeiMeLib/HeciMsgPeiLib.c

/KabylakeSiliconPkg/Me/MeFwDowngrade/Dxe/MeFwDowngrade.c



51 Version 1.4.0 Details

This version is based on Intel® Management Engine Framework BIOS Initialization Code 1.4.0

51.1 New Features

51.1.1 Feature 1

• Description/Solution:

Added Touch filter code for customization requests.

Affected Files

/KabylakeSiliconPkg/Me/IntegratedTouch/IntegratedTouch.c /KabylakeSiliconPkg/Me/IntegratedTouch/IntegratedTouchPrivate.h

51.1.2 Feature 2

• Description/Solution:

Included UnConfigureOnRtcClearDisable Heci Message into RC policy to control.

Affected Files

/KabylakeSiliconPkg/Me/Include/ConfigBlock/MePeiConfig.h
/KabylakeSiliconPkg/Me/Include/Library/PeiMeLib.h
/KabylakeSiliconPkg/Me/Include/MkhiMsgs.h
/KabylakeSiliconPkg/Me/Library/PeiMeLib/HeciMsgPeiLib.c
/KabylakeSiliconPkg/Me/Library/PeiMePolicyLib/PeiMePolicyLib.c

/KabylakeSiliconPkg/Me/Library/Private/PeiMeInitLib/MeInitPostMem.c

51.2 Fixed Bugs

51.2.1 Bug1

• Description/Solution:

Fixed Klocwork issue.

Affected Files



/KabylakeSiliconPkg/Me/Library/Private/DxeBeihaiLib/JhiPlugin.c /KabylakeSiliconPkg/Me/ActiveManagement/AlertStandardFormat/Dxe/AlertStandardFormatDxe.c

51.2.2 Bug2

• Description/Solution:

Fixed native RC Pkg build fail in ME due to 32bit alignment check.

Affected Files

/KabylakeSiliconPkg/Me/HeciInit/Dxe/FwStsSmbios.c /KabylakeSiliconPkg/Me/HeciInit/Dxe/HeciInit.inf /KabylakeSiliconPkg/Me/Include/FwStsSmbiosTable.h /KabylakeSiliconPkg/Me/Include/Library/MeFwStsLib.h

51.2.3 Bug3

• Description/Solution:

Fixed cold boot time increase about 400~600 ms with RVP 3,7,8 and 11 boards.

Affected Files

/KabylakeSiliconPkg/Me/Library/Private/PeiMeInitLib/MbpData.c /KabylakeSiliconPkg/Me/Library/Private/PeiMeInitLib/MbpDebugPrint.c /KabylakeSiliconPkg/Me/Library/Private/PeiMeInitLib/MeInitPostMem.c

51.2.4 Bug4

• Description/Solution:

Fixed Slow POST times if ME in ME Disable BIOS path.

• Affected Files

/KabylakeSiliconPkg/Me/HeciInit/Dxe/FwStsSmbios.c /KabylakeSiliconPkg/Me/HeciInit/Dxe/HeciInit.h /KabylakeSiliconPkg/Me/Include/FwStsSmbiosTable.h /KabylakeSiliconPkg/Me/Library/Private/PeiMeInitLib/MeInitPostMem.c



51.2.5 Bug5

• Description/Solution:

Fixed incorrect usage of sizeof for HeciPdtUnlockMsg routine.

Affected Files

/KabylakeSiliconPkg/Me/Include/Library/DxeMeLib.h /KabylakeSiliconPkg/Me/Library/DxeMeLib/HeciMsgDxeLib.c

51.2.6 Bug6

• Description/Solution:

Fix disk information not appearing in WebUI.

Affected Files

/KabylakeSiliconPkg/Me/BiosExtensionLoader/Dxe/Inventory.c



52 Version 1.3.0 Details

This version is based on Intel $^{\circledR}$ Management Engine Framework BIOS Initialization Code 1.3.0

52.1 New Features

None

52.2 Fixed Bugs

None



53 Version 1.2.0 Details

This version is based on Intel $^{\circledR}$ Management Engine Framework BIOS Initialization Code 1.2.0

53.1 New Features

None

53.2 Fixed Bugs



54 Version 1.1.0 Details

This version is based on Intel $^{\circledR}$ Management Engine Framework BIOS Initialization Code 1.1.0

54.1 New Features

None

54.2 Fixed Bugs

54.2.1 Bug1

• Description/Solution:

Fix no device info display on Web-UI of M.2 NVMe device, due to wrong contents of NVME Identify Controller command.

Affected Files

/KabylakeSiliconPkg/Me/BiosExtensionLoader/Dxe/Inventory.c

54.2.2 Bug2

• Description/Solution:

Fix ME RC Klocwork issues.

Affected Files

/KabylakeSiliconPkg/Me/IntegratedTouch/IntegratedTouch.c /KabylakeSiliconPkg/Me/IntegratedTouch/IntegratedTouchPrivate.h



55 Version 1.0.5 Details

This version is based on Intel $^{\circledR}$ Management Engine Framework BIOS Initialization Code 1.0.5

55.1 New Features

55.1.1 Feature **1**

• Description/Solution:

ME code update for header file compliance.

Affected Files

/KabylakeSiliconPkg/Me/AcpiTables/MeSsdt/MeNvs.asl

/KabylakeSiliconPkg/Me/AcpiTables/MeSsdt/MeSsdt.asl

/KabylakeSiliconPkg/Me/Include/Private/Protocol/MeGlobalNvsArea.h

/KabylakeSiliconPkg/Me/Include/Private/Protocol/MeNvs.h

/KabylakeSiliconPkg/Me/Include/Private/Protocol/PttNvs.h

/KabylakeSiliconPkg/Me/Include/Protocol/MeGlobalNvsArea.h

/KabylakeSiliconPkg/Me/Ptt/Smm/Ptt.asl

/KabylakeSiliconPkg/Me/Ptt/Smm/PttHciSmm.c

/KabylakeSiliconPkg/Me/Ptt/Smm/PttHciSmm.h

/KabylakeSiliconPkg/Me/Ptt/Smm/PttNvs.asl

55.1.2 Feature 2

• Description/Solution:

Clear FreePool usage in PEI clear up.

Affected Files

/KabylakeSiliconPkg/Me/Library/Private/PeiMeInitLib/MbpData.c



55.2 Fixed Bugs

55.2.1 Bug1

• Description/Solution:

Fix FSP GCC build boot fail issue.

Affected Files

/KabylakeSiliconPkg/Me/Library/PeiMeLib/HeciMsgPeiLib.c

55.2.2 Bug2

• Description/Solution:

Removed ASCII Character in comments.

Affected Files

/KabylakeSiliconPkg/Me/IntegratedTouch/IntegratedTouch.c /KabylakeSiliconPkg/Me/IntegratedTouch/IntegratedTouchPrivate.h

55.2.3 Bug3

• Description/Solution:

Fix iTouch initialization code to wait ME ready event.

Affected Files

/KabylakeSiliconPkg/Me/IntegratedTouch/IntegratedTouch.c
/KabylakeSiliconPkg/Me/IntegratedTouch/IntegratedTouchComponentName.c
/KabylakeSiliconPkg/Me/IntegratedTouch/IntegratedTouchPrivate.h
/KabylakeSiliconPkg/Me/library/DxeTouchHeciMsgsLib/DxeTouchHeciMsgsLib.c



56 Version 1.0.4 Details

This version is based on Intel® Management Engine Framework BIOS Initialization Code 1.0.4

56.1 New Features

56.1.1 Feature 1

• Description/Solution:

To update ME doxygen package.

Affected Files

/KabylakeSiliconPkg/Me/Include/Library/PeiMeLib.h /KabylakeSiliconPkg/Me/Library/PeiMeLib/HeciMsgPeiLib.c /KabylakeSiliconPkg/Me/Library/Private/PeiMeInitLib/MeInitPostMem.c

56.1.2 Feature 2

• Description/Solution:

New Heci message and function implemented

- Provide a function MANUF_RST_HLT that can be called in PEI phase on S3 resume.
- Provide a separate function callable at DXE stage (after DID) to poll for FWSTS values for temp_disable.

Affected Files

/KabylakeSiliconPkg/Me/Include/BupMsgs.h

/KabylakeSiliconPkg/Me/Include/ConfigBlock/MePeiConfig.h

/KabylakeSiliconPkg/Me/Include/Library/PeiMeLib.h

/KabylakeSiliconPkg/Me/Include/MkhiMsgs.h

/KabylakeSiliconPkg/Me/Library/PeiMeLib/HeciMsgPeiLib.c

/KabylakeSiliconPkg/Me/Library/PeiMePolicyLib/PeiMePolicyLib.c

/KabylakeSiliconPkg/Me/Library/Private/PeiMeInitLib/MeInitPostMem.c

/KabylakeSiliconPkg/Me/Library/Private/PeiMeInitLib/PchMeUma.c



56.2 Fixed Bugs

56.2.1 Bug1

• Description/Solution:

Added additional check for removable device for fix ODD information not shown on AMT WebUI.

Affected Files

/KabylakeSiliconPkg/Me/BiosExtensionLoader/Dxe/Inventory.c

56.2.2 Bug2

• Description/Solution:

Fix incorrect usage of assert_efi_error.

Affected Files

/KabylakeSiliconPkg/Me/Ptt/Smm/PttHciSmm.c



57 Version 1.0.3 Details

This version is based on Intel® Management Engine Framework BIOS Initialization Code 1.0.3

57.1 New Features

None

57.2 Fixed Bugs

57.2.1 Bug1

• Description/Solution:

iTouch Driver incorrectly binding supprt attaches on all PCI I/O, that will causing problem for other driver in the system.

Affected Files

KabylakeSiliconPkg/Me/IntegratedTouch/IntegratedTouch.c

57.2.2 Bug2

• Description/Solution:

USBr device should not get reported in the Hardware Asset Tables, which is AMT conpliance test issue as AMT_013 fix accordly.

Affected Files

/KabylakeSiliconPkg/Me/BiosExtensionLoader/Dxe/BiosExtensionLoader.inf /KabylakeSiliconPkg/Me/BiosExtensionLoader/Dxe/Inventory.c /KabylakeSiliconPkg/Me/Library/DxeMeLib/DxeMeLib.inf



58 Version 1.0.2 Details

This version is based on Intel $^{\circledR}$ Management Engine Framework BIOS Initialization Code 1.0.2

58.1 New Features

None

58.2 Fixed Bugs

None



59 Version 1.0.1 Details

This version is based on Intel $^{\circledR}$ Management Engine Framework BIOS Initialization Code 1.0.1

59.1 New Features

59.1.1 Feature 1

• Description/Solution:

Add AMT_SUPPORT FLAG for AMT feature support.

Affected Files

/KabylakeSiliconPkg/Me/Library/Private/PeiMeInitLib/MeInitPostMem.c

59.1.2 Feature 2

• Description/Solution:

Added ResetSystemLib instance for SEC/PEI/DXE phase.

Affected Files

/KabylakeSiliconPkg/Me/HeciInit/Dxe/HeciInit.inf

/KabylakeSiliconPkg/Me/HeciInit/Dxe/MeInit.c

/KabylakeSiliconPkg/Me/Library/DxeMeLib/DxeMeLib.inf

/KabylakeSiliconPkq/Me/MePlatformReset/RuntimeDxe/MePlatformReset.c

/ Kabylake Silicon Pkg/Me/Me Platform Reset/Runtime Dxe/Me Platform Reset.h

/KabylakeSiliconPkg/Me/MePlatformReset/RuntimeDxe/MePlatformReset.inf

59.2 Fixed Bugs

59.2.1 Bug1

• Description/Solution:

Replaced Cold boot 0xCF9 write 06 with 0xCF9 write 0E and Warm boot 0xCF9 write 04 with 0xCF9 write 06 for issue fix of Active Processor Core values are not reflecting in BIOS and OS.



Affected Files

/KabylakeSiliconPkg/Me/HeciInit/Dxe/MeInit.c

/KabylakeSiliconPkg/Me/Library/DxeMeLib/MeDxeLibInternals.h

59.2.2 Bug2

• Description/Solution:

Fill information in ResetData and DataSize while reset type is EfiResetPlatformSpecific, to avoid we get a NULL of ResetData.

Affected Files

/KabylakeSiliconPkg/Me/Include/Library/PeiMeLib.h

/KabylakeSiliconPkg/Me/Library/PeiMeLib/MePeiLibInternals.h

/ Kabylake Silicon Pkg/Me/Me Platform Reset/Runtime Dxe/Me Platform Reset.c

/ Kabylake Silicon Pkg/Me/Me Platform Reset/Runtime Dxe/Me Platform Reset. in full platform Reset and Plat

59.2.3 Bug3

• Description/Solution:

Updated DeviceId's for ME devices for SOL terminal issue fix.

Affected Files

/KabylakeSiliconPkg/Me/Include/MeChipset.h

59.2.4 Bug4

• Description/Solution:

Change all PTT detection to use the FTIF register in the PCH which indicates whether TPM transactions are routed to fTpm or not.

Affected Files

/ Kabylake Silicon Pkg/Me/Library/Private/PeiMeInitLib/PchMeUma.c

/KabylakeSiliconPkg/Me/Ptt/Smm/PttHciSmm.c

59.2.5 Bug5

• Description/Solution:

Installs Efi Reset2 PeiService instead the usage of PchResetPpi to be compliant with PI 1.4 spec.



Affected Files

/KabylakeSiliconPkg/Me/HeciInit/Dxe/HeciInitFsp.inf /KabylakeSiliconPkg/Me/HeciInit/Dxe/MeInitFsp.c /KabylakeSiliconPkg/Me/Library/PeiMeLib/HeciMsgPeiLib.c /KabylakeSiliconPkg/Me/Library/PeiMeLib/MePeiLibInternals.h

/KabylakeSiliconPkg/Me/Library/PeiMeLib/PeiMeLib.inf

59.2.6 Bug6

• Description/Solution:

Issue fix for cannot perform reset once disable ME, then re-enable ME State.

Affected Files

/KabylakeSiliconPkg/Me/Include/Library/PeiMeLib.h

/KabylakeSiliconPkg/Me/Library/PeiMeLib/MePeiLibInternals.h

/KabylakeSiliconPkg/Me/MePlatformReset/RuntimeDxe/MePlatformReset.c

/ Kabylake Silicon Pkg/Me/MePlatform Reset/Runtime Dxe/MePlatform Reset. inform Reset. In the property of th



60 Version 1.0.0 Details

This version is based on Intel $^{\circledR}$ Management Engine Framework BIOS Initialization Code 1.0.0

60.1 New Features

None

60.2 Fixed Bugs



61 Version 0.9.1 Details

This version is based on Intel® Management Engine Framework BIOS Initialization Code 0.9.1

61.1 New Features

61.1.1 Feature 1

• Description/Solution:

Add flag to eliminate AMT configuration code if non support AMT in PEI phase.

Affected Files

/KabylakeSiliconPkg/Me/Library/Private/PeiMeInitLib/MeInitPostMem.c

61.1.2 Feature 2

• Description/Solution:

Solved backward compatibility issue.

Affected Files

/KabylakeSiliconPkg/Me/Include/MkhiMsgs.h /KabylakeSiliconPkg/Me/Library/DxeMeLib/HeciMsgDxeLib.c

61.2 Fixed Bugs



62 Version 0.9.0 Details

This version is based on Intel $^{\rm @}$ Management Engine Framework BIOS Initialization Code 0.9.0

62.1 New Features

None

62.2 Fixed Bugs



63 Version 0.8.1 Details

This version is based on Intel® Management Engine Framework BIOS Initialization Code 0.8.1

63.1 New Features

None

63.2 Fixed Bugs

63.2.1 Bug1

• Description/Solution:

Change the way BIOS identifies devices before sending data to AMT to unblock Remote Secure Erase flow for remapped drives and RAID volumes.

Affected Files

/KabylakeSiliconPkg/Me/BiosExtensionLoader/Dxe/BiosExtensionLoader.h

/ Kabylake Silicon Pkg/Me/Bios Extension Loader/Dxe/Bios Extension Loader. information and the property of t

/KabylakeSiliconPkg/Me/BiosExtensionLoader/Dxe/Inventory.c

/KabylakeSiliconPkg/Me/BiosExtensionLoader/Dxe/Inventory.h

63.2.2 Bug2

• Description/Solution:

Issue fix for "Local Fw update heci message" does not work.

Affected Files

/KabylakeSiliconPkg/Me/Include/MkhiMsgs.h

/KabylakeSiliconPkg/Me/Library/DxeMeLib/HeciMsgDxeLib.c

63.2.3 Bug3

• Description/Solution:

If PTT is in idle the TPM_CRB_CTRL_STS may contain garbage values.

• Affected Files

/KabylakeSiliconPkg/Me/Library/PeiDxePttPtpLib/PeiDxePttPtpLib.c



63.2.4 Bug4

• Description/Solution:

Remove old HCI drivers for PTT fully PTP compliant

Affected Files

/KabylakeSiliconPkg/Me/Include/Library/PttHciLib.h /KabylakeSiliconPkg/Me/Library/PeiDxePttHciLib/PeiDxePttHciLib.c /KabylakeSiliconPkg/Me/Library/PeiDxePttHciLib/PeiDxePttHciLib.inf /KabylakeSiliconPkg/SiPkgCommonLib.dsc



64 Version 0.8.0 Details

This version is based on Intel® Management Engine Framework BIOS Initialization Code 0.8.0

64.1 New Features

64.1.1 Feature 1

• Description/Solution:

Condition change for CSME Symmetric key distribution.

Affected Files

/KabylakeSiliconPkg/Me/Include/CoreBiosMsg.h

/KabylakeSiliconPkg/Me/Include/Library/DxeMeLib.h

/KabylakeSiliconPkg/Me/Include/MeBiosPayloadData.h

/KabylakeSiliconPkg/Me/Library/DxeMeLib/HeciMsgDxeLib.c

/KabylakeSiliconPkg/Me/Library/Private/PeiMeInitLib/MbpData.c

/ Kabylake Silicon Pkg/Me/Library/Private/PeiMeInitLib/MbpDebugPrint.c

/KabylakeSiliconPkg/Me/Library/Private/PeiMeInitLib/PeiMeInitLib.inf

/KabylakeSiliconPkg/Me/Library/Private/PeiMeInitLib/PeiMeInitLibFsp.inf

64.1.2 Feature 2

• Description/Solution:

Changed the return value for the ${\sf GET_RSE_PASSWORD}$ in case of empty password.

Affected Files

/KabylakeSiliconPkg/Me/Library/DxeAmtLib/AmtHeciDxeLib.c

64.1.3 Feature 3

• Description/Solution:

To update ME doxygen package.

Affected Files



/KabylakeSiliconPkg/Me/HeciInit/Dxe/EndOfPost.c

64.2 Fixed Bugs

64.2.1 Bug1

• Description/Solution:

End of Post Done Protocol cannot be detected properly.

Affected Files

/KabylakeSiliconPkg/Me/Library/DxeMeLib/MePolicyDxeLib.c

64.2.2 Bug2

• Description/Solution:

Revise 32bit MMIO address restore when S3 resume flow in end of PEI. After restoring s3 boot script, BIOS should not use 64-bit MMIO address at PEI phase.

Affected Files

/KabylakeSiliconPkg/Me/Include/Library/MeChipsetLib.h

/ Kabylake Silicon Pkg/Me/Include/Library/PeiMeLib.h

/KabylakeSiliconPkg/Me/Library/PeiDxeMeChipsetLib/PeiDxeMeChipsetLib.c

/KabylakeSiliconPkg/Me/Library/PeiMeLib/MePolicyPeiLib.c

/KabylakeSiliconPkg/Me/Library/Private/PeiMeInitLib/HeciInit.c

/KabylakeSiliconPkg/Me/Library/Private/PeiMeInitLib/MeInitPostMem.c

64.2.3 Bug3

• Description/Solution:

DRAM INIT data would be always set to 0 by default.

Affected Files

/ Kabylake Silicon Pkg/Me/Include/Config Block/MePei Config.h

/KabylakeSiliconPkg/Me/Library/Private/PeiMeInitLib/PchMeUma.c

64.2.4 Bug4

• Description/Solution:

PTT ACPI structure is not aligned between ASL and C code for External BIOS.

• Affected Files



/KabylakeSiliconPkg/Me/Ptt/Smm/Ptt.asl

64.2.5 Bug5

• Description/Solution:

Removing unnecessary header file.

• Affected Files

/Kabylake Silicon Pkg/Me/Active Management/Alert Standard Format/Dxe/Alert Standard Format/Dxe



65 Version 0.7.3 Details

This version is based on $Intel^{\circledR}$ Management Engine Framework BIOS Initialization Code 0.7.3

65.1 New Features

• Description/Solution:

65.1.1 Feature 1

• Description/Solution:

To embellish ME doxygen package.

Affected Files

/KabylakeSiliconPkg/Me/HeciInit/Dxe/EndOfPost.c

65.2 Fixed Bugs

None



66 Version 0.7.2 Details

This version is based on Intel® Management Engine Framework BIOS Initialization Code 0.7.2

66.1 New Features

66.1.1 Feature 1

• Description/Solution:

Add BIOS reporting of NVMe device in ME Management Media Table.

Affected Files

/KabylakeSiliconPkg/Me/BiosExtensionLoader/Dxe/BiosExtensionLoader.c

/KabylakeSiliconPkg/Me/BiosExtensionLoader/Dxe/BiosExtensionLoader.h

/KabylakeSiliconPkg/Me/BiosExtensionLoader/Dxe/BiosExtensionLoader.inf

/KabylakeSiliconPkg/Me/BiosExtensionLoader/Dxe/Inventory.c

/KabylakeSiliconPkg/Me/BiosExtensionLoader/Dxe/Inventory.h

/KabylakeSiliconPkg/Me/Include/HeciRegs.h

66.1.2 Feature 2

• Description/Solution:

To embellish include file path in slicon package.

Affected Files

/Kabylake Silicon Pkg/Me/Active Management/Alert Standard Format/Dxe/Alert Standard Format/Dxe

/ Kabylake Silicon Pkg/Me/HeciInit/Dxe/EndOf Post.c

/KabylakeSiliconPkg/Me/HeciInit/Dxe/HeciInit.c

/KabylakeSiliconPkg/Me/HeciInit/Dxe/MeInit.c

/ Kabylake Silicon Pkg/Me/HeciInit/Dxe/MeInitFsp.c

/ Kabylake Silicon Pkg/Me/Include/Private/Library/DxeBeihai Lib.h

/KabylakeSiliconPkg/Me/Jhi/Dxe/Jhid.c

/KabylakeSiliconPkg/Me/Jhi/Dxe/Jhid.h

/KabylakeSiliconPkg/Me/Jhi/Dxe/Jhis.c



/KabylakeSiliconPkg/Me/Jhi/Dxe/Jhis.h

/KabylakeSiliconPkg/Me/Library/Private/DxeBeihaiLib/BeihaiPlugin.c

/KabylakeSiliconPkg/Me/Library/Private/DxeBeihaiLib/bhp_impl_admin.c

/KabylakeSiliconPkg/Me/Library/Private/DxeBeihaiLib/bhp_impl_ta.c

/KabylakeSiliconPkg/Me/Library/Private/DxeBeihaiLib/JhiPlugin.h

/KabylakeSiliconPkg/Me/Library/Private/DxeBeihaiLib/Mei.c

/KabylakeSiliconPkg/Me/Library/Private/DxeJhiSupportLib/File.c

/ Kabylake Silicon Pkg/Me/Library/Private/DxeJhi Support Lib/MsgPrintf.c

/KabylakeSiliconPkg/Me/Library/Private/DxeJhiSupportLib/StrHelper.c

/Kabylake Silicon Pkg/Me/Library/Private/PeiActive Management Lib/PeiAlert Standard Format.h

/Kabylake Silicon Pkg/Me/Library/Private/PeiDxeAlert Standard Format Lib/Alert Standard Format .c

/KabylakeSiliconPkg/Me/Library/Private/PeiDxeHeciInitLib/HeciCore.c

/KabylakeSiliconPkg/Me/Library/Private/PeiMeInitLib/HeciInit.h

66.1.3 Feature 3

• Description/Solution:

Add PostCodes to indicate 'exit' for previous 'entry' PostCodes of ME stages to improve debug capability.

Affected Files

/ Kabylake Silicon Pkg/Doxygen Internal Only/Doxygen Post Code.h

/Kabylake Silicon Pkg/Me/Active Management/Alert Standard Format/Dxe/Alert Standard Format/Dxe

/KabylakeSiliconPkg/Me/BiosExtensionLoader/Dxe/BiosExtensionLoader.c

/KabylakeSiliconPkg/Me/HeciInit/Dxe/EndOfPost.c

/KabylakeSiliconPkg/Me/HeciInit/Dxe/HeciInit.c

/KabylakeSiliconPkg/Me/Library/DxeMeLib/HeciMsgDxeLib.c

/ Kabylake Silicon Pkg/Me/Library/PeiMeLib/HeciMsgPeiLib.c

/KabylakeSiliconPkg/Me/Library/PeiMeLib/MePeiLibInternals.h

/ Kabylake Silicon Pkg/Me/Library/Private/PeiMeInitLib/HeciInit.c

/KabylakeSiliconPkg/Me/Library/Private/PeiMeInitLib/MbpData.c

/KabylakeSiliconPkg/Me/Library/Private/PeiMeInitLib/PchMeUma.c

66.1.4 Feature 4

• Description/Solution:



Modify DXE modules if these module use PCH config data.

Affected Files

/KabylakeSiliconPkg/Me/HeciInit/Dxe/EndOfPost.c /KabylakeSiliconPkg/Me/HeciInit/Dxe/HeciInit.inf /KabylakeSiliconPkg/Me/HeciInit/Dxe/HeciInitFsp.inf

66.1.5 Feature 5

• Description/Solution:

Builds a HOB to preserve the Policy data which are needed for ME RC PEI and DXE phases.

• Affected Files

/KabylakeSiliconPkg/Me/BiosExtensionLoader/Dxe/BiosExtensionLoader.c

/KabylakeSiliconPkg/Me/HeciInit/Dxe/EndOfPost.c

/KabylakeSiliconPkg/Me/HeciInit/Dxe/HeciInit.inf

/KabylakeSiliconPkg/Me/HeciInit/Dxe/HeciInitFsp.inf

/KabylakeSiliconPkg/Me/Include/AmtPolicyHob.h

/KabylakeSiliconPkg/Me/Include/ConfigBlock/AmtDxeConfig.h

/KabylakeSiliconPkg/Me/Include/Library/DxeAmtLib.h

/KabylakeSiliconPkg/Me/Include/MePolicyHob.h

/KabylakeSiliconPkg/Me/Library/DxeAmtLib/AmtDxeLibInternals.h

/KabylakeSiliconPkg/Me/Library/DxeAmtLib/AmtPolicyDxeLib.c

/KabylakeSiliconPkg/Me/Library/DxeAmtLib/DxeAmtLib.inf

/KabylakeSiliconPkg/Me/Library/DxeAmtPolicyLib/DxeAmtPolicyLib.c

/KabylakeSiliconPkg/Me/Library/DxeAmtPolicyLib/DxeAmtPolicyLib.inf

/ Kabylake Silicon Pkg/Me/Library/DxeAmt Policy Lib/DxeAmt Policy Library.h

/KabylakeSiliconPkg/Me/Library/DxeMeLib/DxeMeLib.inf

/ Kabylake Silicon Pkg/Me/Library/Dxe MeLib/MeDxeLib Internals.h

/KabylakeSiliconPkg/Me/Library/DxeMeLib/MePolicyDxeLib.c

/ Kabylake Silicon Pkg/Me/Library/DxeMePolicyLib/DxeMePolicyLib.c

/KabylakeSiliconPkg/Me/Library/DxeMePolicyLib/DxeMePolicyLib.inf

/KabylakeSiliconPkg/Me/Library/DxeMePolicyLib/DxeMePolicyLibrary.h

/KabylakeSiliconPkg/Me/Library/PeiMeLib/HeciMsgPeiLib.c

/KabylakeSiliconPkg/Me/Library/Private/PeiMeInitLib/MeInitPostMem.c

/KabylakeSiliconPkg/Me/Library/Private/PeiMeInitLib/PeiMeInitLib.inf



/ Kabylake Silicon Pkg/Me/Library/Private/PeiMeInitLib/PeiMeInitLibFsp. information of the property of the p

66.1.6 Feature 6

• Description/Solution:

Condition change for Sideband access removal due to PCH code change request.

Affected Files

/KabylakeSiliconPkg/Me/HeciInit/Dxe/EndOfPost.c

66.2 Fixed Bugs

66.2.1 Bug1

• Description/Solution:

Fix KBL Virtual Keyboard is not functional.

Affected Files

/KabylakeSiliconPkg/Me/Library/Private/PeiDxeHeciInitLib/HeciCore.c

66.2.2 Bug2

• Description/Solution:

Ctrl+P MEBx prompt is not seen during platform boot.

Affected Files

/KabylakeSiliconPkg/Me/Library/DxeAmtLib/AmtPolicyDxeLib.c /KabylakeSiliconPkg/Me/Library/DxeMeLib/MePolicyDxeLib.c

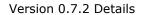
66.2.3 Bug3

• Description/Solution:

 \mbox{MEI} driver got yellow bang and not disappear in Device manager if ME disable by HDA_SDO jumper.

Affected Files

/KabylakeSiliconPkg/Me/HeciInit/Dxe/MeInit.c /KabylakeSiliconPkg/Me/HeciInit/Dxe/MeInitFsp.c





66.2.4 Bug4

• Description/Solution:

Fix the warning message shows up during platform boot to EFI shell if ME State disabled.

• Affected Files

/KabylakeSiliconPkg/Me/HeciInit/Dxe/MeInit.c



67 Version 0.7.1 Details

This version is based on Intel® Management Engine Framework BIOS Initialization Code 0.7.1

67.1 New Features

67.1.1 Feature 1

• Description/Solution:

CSME design change for the message "Set Nanufacturing ME Reset and HALT message", ME RC need to change accordingly.

Affected Files

/KabylakeSiliconPkg/Me/Library/DxeMeLib/HeciMsgDxeLib.c

67.1.2 Feature 2

• Description/Solution:

Remove useless protocol in BIOSExtensionloader driver.

Affected Files

/KabylakeSiliconPkg/Me/BiosExtensionLoader/Dxe/BiosExtensionLoader.inf

67.1.3 Feature 3

• Description/Solution:

Cosmeticize comments in definition of ME/AMT policy protocol.

• Affected Files

/KabylakeSiliconPkg/Me/Include/Protocol/MePolicy.h /KabylakeSiliconPkg/Me/Include/Protocol/AmtPolicy.h

67.2 Fixed Bugs

None



68 Version 0.7.0 Details

This version is based on Intel $^{\circledR}$ Management Engine Framework BIOS Initialization Code 0.7.0

68.1 New Features

68.1.1 Feature 1

• Description/Solution:

Remove redundant policies between PEI and DXE ConfigBlocks, and refine prototype of ME public APIs.

Affected Files

/Kabylake Silicon Pkg/Me/Active Management/Alert Standard Format/Dxe/Alert Standard Format/Dxe

/KabylakeSiliconPkg/Me/HeciInit/Dxe/EndOfPost.c

/KabylakeSiliconPkg/Me/HeciInit/Dxe/HeciInit.c

/KabylakeSiliconPkg/Me/HeciInit/Dxe/HeciInit.inf

/KabylakeSiliconPkg/Me/HeciInit/Dxe/MeInit.c

/KabylakeSiliconPkg/Me/HeciInit/Dxe/MeInitFsp.c

/KabylakeSiliconPkg/Me/Include/ConfigBlock/MeDxeConfig.h

/ Kabylake Silicon Pkg/Me/Include/Config Block/MePei Config.h

/KabylakeSiliconPkg/Me/Include/HeciRegs.h

/ Kabylake Silicon Pkg/Me/Include/Library/DxeMeLib.h

/KabylakeSiliconPkg/Me/Include/Library/PeiMeLib.h

/ Kabylake Silicon Pkg/Me/Include/Private/Library/HeciInitLib.h

/KabylakeSiliconPkg/Me/Include/Protocol/HeciProtocol.h

/ Kabylake Silicon Pkg/Me/Library/Dxe MeLib/Dxe MeLib. inf

/KabylakeSiliconPkg/Me/Library/DxeMeLib/HeciMsgDxeLib.c

/ Kabylake Silicon Pkg/Me/Library/Dxe MeLib/MeDxe LibInternals.h

/KabylakeSiliconPkg/Me/Library/DxeMeLib/MePolicyDxeLib.c

/KabylakeSiliconPkg/Me/Library/DxeMePolicyLib/DxeMePolicyLib.c

/KabylakeSiliconPkg/Me/Library/PeiMeLib/MePeiLibInternals.h

/KabylakeSiliconPkg/Me/Library/PeiMeLib/MePolicyPeiLib.c

/KabylakeSiliconPkg/Me/Library/PeiMeLib/PeiMeLib.inf

/ Kabylake Silicon Pkg/Me/Library/PeiMePolicyLib/PeiMePolicyLib.c



/ Kabylake Silicon Pkg/Me/Library/Private/DxeBeihai Lib/Mei.c

/KabylakeSiliconPkg/Me/Library/Private/PeiDxeHeciInitLib/HeciCore.c

/KabylakeSiliconPkg/Me/Library/Private/PeiDxeHeciInitLib/HeciCore.h

/KabylakeSiliconPkg/Me/Library/Private/PeiMeInitLib/HeciInit.c

/KabylakeSiliconPkg/Me/Library/Private/PeiMeInitLib/HeciInit.h

/KabylakeSiliconPkg/Me/Library/Private/PeiMeInitLib/MbpData.c

/KabylakeSiliconPkg/Me/Library/Private/PeiMeInitLib/MeInitPostMem.c

/KabylakeSiliconPkg/Me/Library/Private/PeiMeInitLib/PeiMeInitLib.inf

/KabylakeSiliconPkg/Me/Library/Private/PeiMeInitLib/PeiMeInitLibFsp.inf

/KabylakeSiliconPkg/SiPkg.dec

68.1.2 Feature 2

• Description/Solution:

RSE requirement change to execute Secure Erase on all connected storge (SATA & NVMe) in a multi-disk configuration which includes RST configurations such as RAID/NGSA.

Affected Files

/KabylakeSiliconPkg/Me/Include/AlertStandardFormat.h /KabylakeSiliconPkg/Me/Library/DxeAmtLib/AmtHeciDxeLib.c

68.1.3 Feature 3

• Description/Solution:

To prevent H_Rst bit to be set agin when HOST still working in progress.

Affected Files

/KabylakeSiliconPkg/Me/Library/Private/PeiDxeHeciInitLib/HeciCore.c

68.1.4 Feature 4

• Description/Solution:

Remve PTT switch policy in ME ConfigBlock.

Affected Files

/KabylakeSiliconPkg/Me/AcpiTables/MeSsdt/MeSsdt.asl /KabylakeSiliconPkg/Me/Include/ConfigBlock/MePeiConfig.h /KabylakeSiliconPkg/Me/Include/Protocol/MeGlobalNvsArea.h /KabylakeSiliconPkg/Me/Library/PeiMePolicyLib/PeiMePolicyLib.c

/KabylakeSiliconPkg/Me/Library/Private/PeiMeInitLib/PchMeUma.c

Release Notes



/KabylakeSiliconPkg/Me/Ptt/Smm/Ptt.asl

68.1.5 Feature 5

• Description/Solution:

Add extra POSTCodes for ME RC.

Affected Files

/Kabylake Silicon Pkg/Me/Active Management/Alert Standard Format/Dxe/Alert Standard Format/Dxe

/KabylakeSiliconPkg/Me/BiosExtensionLoader/Dxe/BiosExtensionLoader.c

/KabylakeSiliconPkg/Me/Library/DxeMeLib/DxeMeLib.inf

/KabylakeSiliconPkg/Me/Library/DxeMeLib/HeciMsgDxeLib.c

/KabylakeSiliconPkg/Me/Library/DxeMeLib/MeDxeLibInternals.h

/KabylakeSiliconPkg/Me/Library/PeiMeLib/HeciMsgPeiLib.c

/KabylakeSiliconPkg/Me/Library/PeiMeLib/PeiMeLib.inf

68.1.6 Feature 6

• Description/Solution:

To allow to install HECI PPI for SPS.

Affected Files

/KabylakeSiliconPkg/Me/Library/Private/PeiMeInitLib/HeciInit.c /KabylakeSiliconPkg/Me/Library/Private/PeiMeInitLib/HeciInit.h

68.1.7 Feature 7

• Description/Solution:

To add Produces/Consumes commnet for each GUID.

Affected Files

/Kabylake Silicon Pkg/Me/Active Management/Alert Standard Format/Dxe/Alert Standard Format/Dxe

/KabylakeSiliconPkg/Me/ActiveManagement/Sol/Dxe/SerialOverLan.inf

/KabylakeSiliconPkg/Me/HeciInit/Dxe/HeciInitFsp.inf

/KabylakeSiliconPkg/Me/IntegratedTouch/IntegratedTouch.inf

/KabylakeSiliconPkg/Me/Jhi/Dxe/JhiDxe.inf

/KabylakeSiliconPkg/Me/Library/DxeMePolicyLib/DxeMePolicyLib.inf

/Kabylake Silicon Pkg/Me/library/Dxe Touch Heci Msgs Lib/Dxe Touch Heci Msgs Lib. information of the property of the propert



/KabylakeSiliconPkg/Me/Library/PeiMeLib/PeiMeLib.inf /KabylakeSiliconPkg/Me/Ptt/Smm/PttHciSmm.inf

68.1.8 Feature 8

• Description/Solution:

To allow extra MEI messages to ME FW when FW is in recovery mode.

Affected Files

/KabylakeSiliconPkg/Me/Include/Private/Library/HeciInitLib.h /KabylakeSiliconPkg/Me/Library/Private/PeiDxeHeciInitLib/HeciCore.c

68.2 Fixed Bugs

68.2.1 Bug1

• Description/Solution:

Fix building error for GCC compiler.

Affected Files

/KabylakeSiliconPkg/Me/Library/Private/DxeBeihaiLib/Mei.c

68.2.2 Bug2

• Description/Solution:

Fix ME RC Klocwork issues.

Affected Files

/ Kabylake Silicon Pkg/Me/Jhi/Dxe/Jhis.c

/KabylakeSiliconPkg/Me/Library/Private/DxeBeihaiLib/BeihaiPlugin.c

/ Kabylake Silicon Pkg/Me/Library/Private/DxeBeihai Lib/Jhi Plugin.c

/KabylakeSiliconPkg/Me/Ptt/Smm/PttHciSmm.c

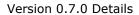
/KabylakeSiliconPkg/Me/Library/DxeMeLib/MePolicyDxeLib.c

68.2.3 Bug3

• Description/Solution:

Fix natural alignment issue for ME RC.

Affected Files





/KabylakeSiliconPkg/Me/Include/AmtForcePushPetHob.h /KabylakeSiliconPkg/Me/Include/MeBiosPayloadData.h /KabylakeSiliconPkg/Me/Include/MeBiosPayloadHob.h

68.2.4 Bug4

• Description/Solution:

Fix for the return type of "AmtConfigBlockInit" in ME RC.

Affected Files

/KabylakeSiliconPkg/Me/Library/DxeAmtLib/AmtPolicyDxeLib.c



69 Version 0.6.1 Details

This version is based on Intel $^{\circledR}$ Management Engine Framework BIOS Initialization Code 0.6.1

69.1 New Features

69.1.1 Feature 1

• Description/Solution:

ME RC uses PCH PSF library and doesn't control PSF registers directly.

Affected Files

/KabylakeSiliconPkg/Me/Library/PeiDxeMeChipsetLib/PeiDxeMeChipsetLib.c /KabylakeSiliconPkg/ /Library/PeiDxeMeChipsetLib/PeiDxeMeChipsetLib.inf

69.1.2 Feature 2

• Description/Solution:

Refine doxygen syntax in ME RC for all ConfigBlocks and Policies..

Affected Files

/KabylakeSiliconPkg/Me/Include/ConfigBlock/AmtDxeConfig.h /KabylakeSiliconPkg/Me/Include/ConfigBlock/AmtPeiConfig.h /KabylakeSiliconPkg/Me/Include/ConfigBlock/MeDxeConfig.h /KabylakeSiliconPkg/Me/Include/ConfigBlock/MePeiConfig.h /KabylakeSiliconPkg/Me/Include/Protocol/AmtPolicy.h /KabylakeSiliconPkg/Me/Include/Protocol/MePolicy.h

69.1.3 Feature 3

• Description/Solution:

To replace ME HOB by Silicon HOB for ME pre-mem ConfigBlock.

Affected Files

/KabylakeSiliconPkg/Me/HeciInit/Dxe/EndOfPost.c /KabylakeSiliconPkg/Me/HeciInit/Dxe/HeciInit.c /KabylakeSiliconPkg/Me/Include/CoreBiosMsg.h



/KabylakeSiliconPkg/Me/Include/MePolicyHob.h /KabylakeSiliconPkg/Me/Library/DxeMeLib/HeciMsgDxeLib.c /KabylakeSiliconPkg/Me/Library/DxeMeLib/MePolicyDxeLib.c /KabylakeSiliconPkg/Me/Library/DxeMePolicyLib/DxeMePolicyLib.c /KabylakeSiliconPkg/Me/Library/DxeMePolicyLib/DxeMePolicyLib.inf /KabylakeSiliconPkg/Me/Library/DxeMePolicyLib/DxeMePolicyLibrary.h /KabylakeSiliconPkg/Me/Library/PeiMeLib/HeciMsgPeiLib.c /KabylakeSiliconPkg/Me/Library/PeiMePolicyLib/PeiMePolicyLib.c /KabylakeSiliconPkg/Me/Library/Private/DxeBeihaiLib/DxeBeihaiLib.inf /KabylakeSiliconPkg/Me/Library/Private/DxeBeihaiLib/Mei.c /KabylakeSiliconPkg/Me/Library/Private/PeiMeInitLib/HeciInit.c /KabylakeSiliconPkg/Me/Library/Private/PeiMeInitLib/MeInitPostMem.c /KabylakeSiliconPkg/Me/Library/Private/PeiMeInitLib/PchMeUma.c /KabylakeSiliconPkg/Me/Library/Private/PeiMeInitLib/PeiMeInitLib.inf /KabylakeSiliconPkg/Me/Library/Private/PeiMeInitLib/PeiMeInitLibFsp.inf /KabylakeSiliconPkg/SiPkg.dec

69.2 Fixed Bugs



70 Version 0.6.0 Details

This version is based on Intel® Management Engine Framework BIOS Initialization Code 0.6.0

70.1 New Features

70.1.1 Feature 1

• Description/Solution:

Use MeSetup to replace ME options in SetupVariable, revise and refine some unsed policies.

Affected Files

/KabylakeSiliconPkg/Me/HeciInit/Dxe/HeciInit.c

/KabylakeSiliconPkg/Me/Include/ConfigBlock/MeDxeConfig.h

/KabylakeSiliconPkg/Me/Include/ConfigBlock/MePeiConfig.h

/KabylakeSiliconPkg/Me/Library/DxeAmtPolicyLib/DxeAmtPolicyLib.c

/KabylakeSiliconPkg/Me/Library/DxeMeLib/MePolicyDxeLib.c

/KabylakeSiliconPkg/Me/Library/DxeMePolicyLib/DxeMePolicyLib.c

/KabylakeSiliconPkg/Me/Library/DxeMePolicyLib/DxeMePolicyLibrary.h

/KabylakeSiliconPkg/Me/Library/PeiAmtPolicyLib/PeiAmtPolicyLib.c

/KabylakeSiliconPkg/Me/Library/PeiMeLib/HeciMsgPeiLib.c

/KabylakeSiliconPkg/Me/Library/PeiMePolicyLib/PeiMePolicyLib.c

/ Kabylake Silicon Pkg/Me/Library/PeiMePolicyLib/PeiMePolicyLibrary.h

/KabylakeSiliconPkg/Me/Library/Private/PeiMeInitLib/HeciInit.c

/ Kabylake Silicon Pkg/Me/Library/Private/PeiMeInitLib/MeInitPostMem.c

/KabylakeSiliconPkg/Me/Library/Private/PeiMeInitLib/PchMeUma.c

70.1.2 Feature 2

• Description/Solution:

Remove FSP_FLAG build switch and relative code to accords with FSP and EFI build.

Affected Files

/KabylakeSiliconPkg/Me/HeciInit/Dxe/EndOfPost.c

/ Kabylake Silicon Pkg/Me/HeciInit/Dxe/HeciInit.c

/KabylakeSiliconPkg/Me/HeciInit/Dxe/HeciInit.inf



/KabylakeSiliconPkg/Me/Library/Private/PeiMeInitLib/HeciInit.c /KabylakeSiliconPkg/Me/Library/Private/PeiMeInitLib/HeciInit.h /KabylakeSiliconPkg/Me/Library/Private/PeiMeInitLib/MbpData.c /KabylakeSiliconPkg/Me/Library/Private/PeiMeInitLib/PchMeUma.c

70.1.3 Feature 3

• Description/Solution:

Add EOP message policy,

- For fsp+coreboot, the EOP message will be send at End of PEI.
- For fsp+wrapper and EDKII build, the EOP will be sent at ReadyToBoot event (DXE phase). → Default

Affected Files

/KabylakeSiliconPkg/Me/Library/PeiMePolicyLib/PeiMePolicyLib.c

70.2 Fixed Bugs

70.2.1 Bug1

• Description/Solution:

Fixed EOP message in S3 resume path for FSP build.

Affected Files

/KabylakeSiliconPkg/Me/HeciInit/Dxe/MeInitFsp.c

70.2.2 Bug2

• Description/Solution:

Revised PcdAmtEnable set to FALSE case was an ASSERT in platform code.

Affected Files

/KabylakeSiliconPkg/Me/Library/DxeAmtLibNull/DxeAmtLibNull.c
/KabylakeSiliconPkg/Me/Library/DxeAmtLibNull/DxeAmtLibNull.inf
/KabylakeSiliconPkg/Me/Library/DxeAmtPolicyLibNull/DxeAmtPolicyLibNull.c
/KabylakeSiliconPkg/Me/Library/DxeAmtPolicyLibNull/DxeAmtPolicyLibNull.inf
/KabylakeSiliconPkg/SiPkgDxeLib.dsc



71 Version 0.5.0 Details

This version is based on Intel $^{\circledR}$ Management Engine Framework BIOS Initialization Code 0.5.0

71.1 New Features

None

71.2 Fixed Bugs

None

71.3 Known Issues