

Intel® Firmware Support Package (Intel® FSP) for 8th Generation Intel® Core™ Processor Code-Named CoffeeLake (CFL) Gold

Release Notes

October 2018



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Revision History

These are the main releases of Intel® Firmware Support Package (Intel® FSP) for 8th Generation Intel® Core™ Processor Code-Named CoffeeLake.

Date	Revision	Description
January 2018	Alpha	Alpha Release for IOTG supported H SKU
June 2018	Beta	Beta Release for IOTG supported H/S SKU
October 2018	Gold	Gold Release for IOTG supported H/S SKU



1.0 Introduction

This package contains required binary image(s) and collateral for the Intel® Firmware Support Package (Intel® FSP) for 8th Generation Intel® Core™ Processor code-named CoffeeLake and Mobile Intel® Chipset sku.

Compliant with FSP 2.0 External Architecture Specification.

This document provides system requirements, installation instructions, issues and limitations, and legal information.

To learn more about this product, see:

- New and previously new features listed in <u>Section 2.0, New in This Release</u>.
- Reference documentation listed in <u>Section 1.2, Related Documentation, Tools, and Packages</u>.

The following table lists the relevant platform software components used during development and validation of this release.

Table 1. Platform Software Component Information

Component	Beta	
Microcode Update (A0-stepping)	m22906EA_00000094	

1.1 Terminology

The following terms are used in this document.

Table 2. Terminology

Term	Description
API	Application Programming Interface
BSF	Binary Settings File
ВСТ	Binary Configuration Tool
CRB	Customer Reference Board
Intel® EDC	Intel® Embedded Design Center
Intel® FSP	Intel® Firmware Support Package
SoC	System on Chip



1.2 Related Documentation, Tools, and Packages

Table 3. Related Documentation, Tools, and Packages

Document	Location
CannonLake_FSP_Integration_Guide.pdf	Available in this release package
Intel® Binary Configuration Tool for Intel® Firmware Support Package	www.intel.com/fsp
Intel® Firmware Support Package (Intel® FSP) External Architecture Specification (EAS) v2.0	https://www.intel.com/c ontent/dam/www/public /us/en/documents/tech nical-specifications/fsp- architecture-spec-v2.pdf

1.3 Intended Audience

The intended audience is platform and system developers who intend to use an Intel® FSP-based boot loader for the firmware solution for their overall design based on the Intel® Core™ Processor code-named CoffeeLake. This group includes, but is not limited to, system BIOS developers, boot loader developers, and system integrators.

1.4 Customer Support

Intel offers support for this software at the API level only, defined in the Intel® FSP Integration Guide and reference manuals listed in <u>Section 1.2, Related Documentation, Tools, and Packages</u>.

For technical support, please raise IPS (Intel® Premier Support) at https://shnintelsf2crm.intel.myshn.net/home/home.jsp



2.0 New in This Release

2.1 Alpha Features

• Initial release.

2.2 Beta Features

• Beta Release.

2.3 Gold Features

• Gold Release.



3.0 Fixed Issues

The following list contains the fixed issues in this release:

- CoffeeLake FSP.bsf having duplicate entry field
 - o Ερ
 - Coffee Lake PCH > PcdSerialloUartNumber
 Coffee Lake PCH > PcdSerialloUartNumber
 SerialloUart2
- Typo for CoffeeLake FSP.bsf entry
 - Eg.
 - Coffee Lake System Agent > Skip PAM "regsiter" lock
- PCH Seriallo I2C Pads Termination with "empty" value on BCT Tool on Fsp.bsf



4.0 Limitations

4.1 Current Release

• None



5.0 Known Issues

5.1 Current Release

• None.



6.0 Split FSP image into individual FSP-T/M/S component

FSP 2.0 image can be split to 3 individual component using the SplitFspBin.py script in Edk2\IntelFsp2Pkg\Tools and BCT tools.

Rebase address:

Coreboot will rebase and relocate FSP binary dynamically so the base address is not hardcoded with the default base address and location. Once configure the FSP binary as XIP, Coreboot can decide where the binary will be placed in the CBFS and will take care of rebasing it during build.



7.0 Where to Find the Release

This package can be found at CDI.



8.0 Release Content

This release contains:

- Intel® FSP Integration Guide
- Intel® FSP Binary
- Binary Settings File (BSF)
- Release Notes



9.0 Hardware and Software Compatibility

9.1 Supported Hardware

This Intel® Firmware Support Package (Intel® FSP) release is specifically targeted for 8th Generation Intel® Core™ Processor code-named CoffeeLake and Mobile Intel® Chipset.

9.2 Supported Operating Systems

This release can be installed on either a Windows* or a Linux* system. However, the Intel® FSP binary itself can be used with any software development environment to generate a complete boot loader solution.

The software in this release has been validated on customer reference boards (CRBs) with the boot loader and operating systems listed in the following table.

Table 4. Operating System/Boot Loader Support

Product Family	Boot Loader	Operating System
8th Generation Intel® Core™ Processor code-named CoffeeLake and Mobile Intel ® Chipset.	Coreboot* with the UEFI payload	Yocto Project*
8th Generation Intel® Core™ Processor code-named CoffeeLake and Mobile Intel ® Chipset.	Coreboot* with the U-Boot payload	Yocto Project*



10.0 Configuration

Intel® Binary Configuration Tool (BCT) for Intel® Firmware Support Package (Intel® FSP) is provided as a companion tool and is intended to be used to:

• Customize the Intel® FSP binary configuration options based on the Binary Settings File (BSF).

It is recommended to use the latest version of Intel® Binary Configuration Tool with this release.

See Intel® Binary Configuration Tool User Guide for the usage instructions. See <u>Section 1.2, Related Documentation, Tools, and Packages</u>, for information on where to download the tool.

10.1 Rebasing

Please refer section 6.0.

10.2 Microcode

Use the latest microcode when integrating Intel® FSP. Any processor that does not have the correct microcode update loaded is considered to be operating out of specification. See the integration guide for more details regarding microcode loading.