



Open. Together.



OCP
REGIONAL
SUMMIT

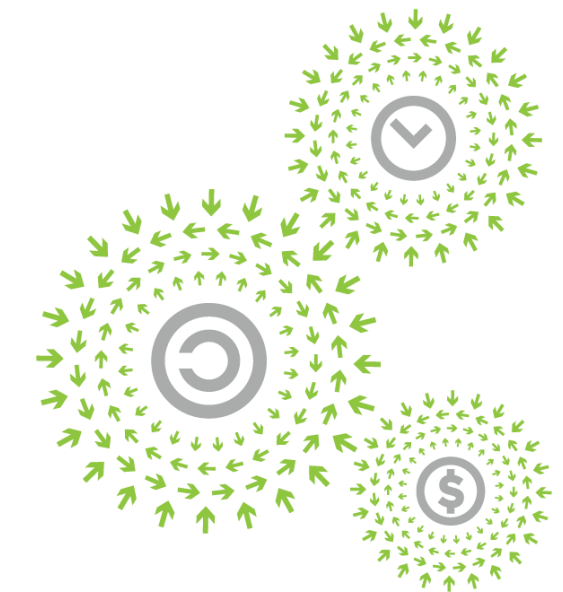
Intel® Firmware Support Package (FSP) + EDK II for Cloud



OPEN SYSTEM
FIRMWARE

Murugasamy (Sammy) Nachimuthu
Sr. Principal Engineer, Intel Corporation

Mallik Bulusu
Principal Firmware Engineering Manager,
Microsoft Corporation



OPEN
PLATINUM™



Open. Together.

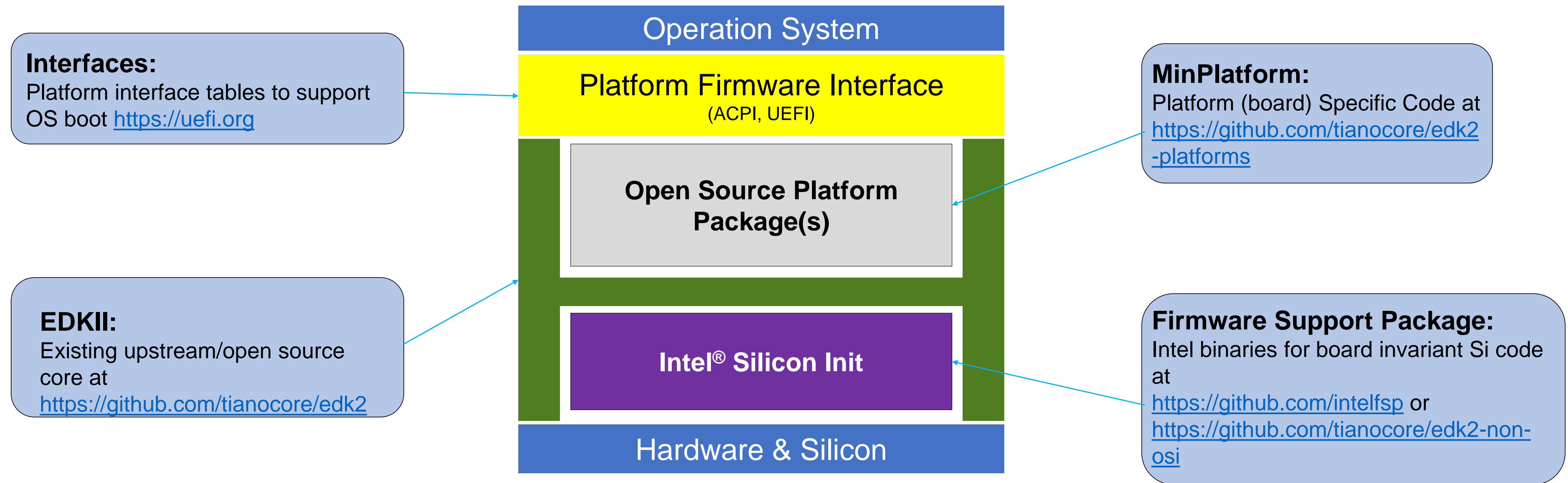
CSP Requirements on Cloud FW

- Standards based FW
- Open Source Options
- Reduced boot time capability
- Scalable and easy-to-adapt FW solutions
 - Ability to integrate silicon provider modules easily with the system firmware
- Ecosystem support

UEFI Based Open System Firmware

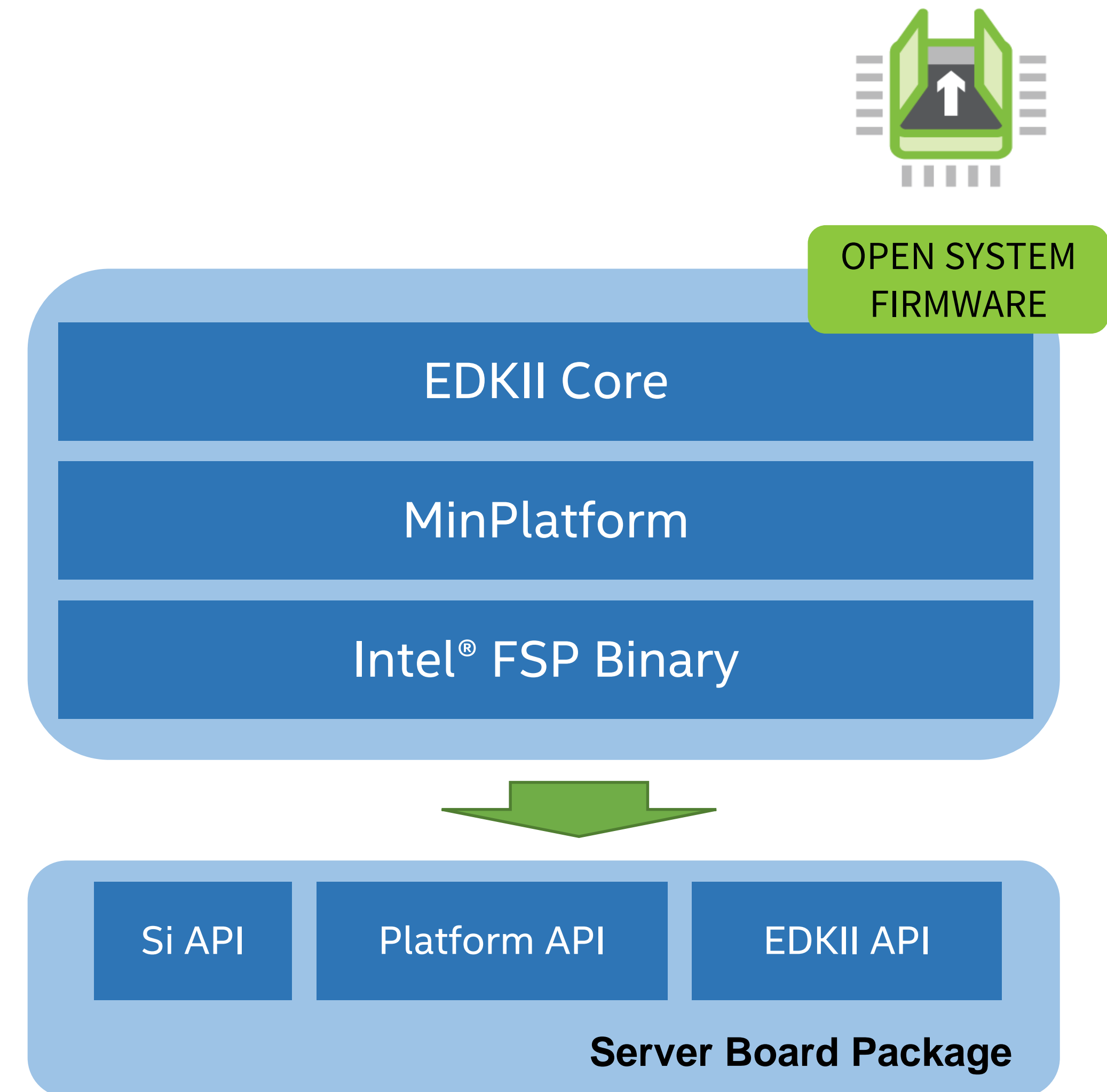


OPEN SYSTEM
FIRMWARE



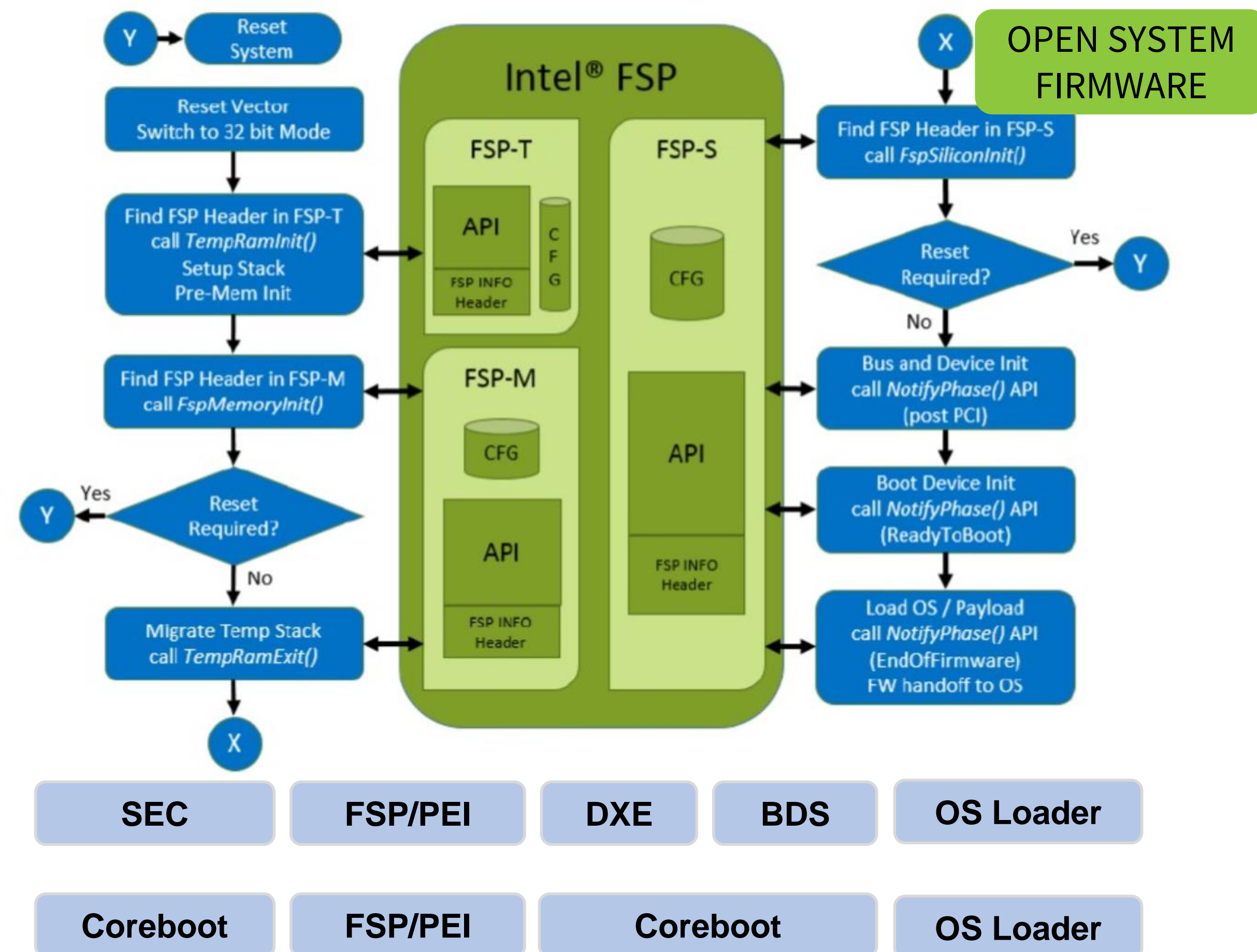
MinPlatform

- Minimum set of platform code needed to realize server with white box configuration
- Offer buildable and bootable “white box” configuration using Intel® FSP
- Reduce volume of “closed source” needed to support Server products



Intel® FSP (Firmware Support Package)

- Intel® FSP provides processor and chipset initialization easily be incorporated into industry boot loader framework (e.g. core boot, Tiano Core etc.)
- To abstract the complexity of silicon initialization and publicly distribute binaries of silicon code



Intel® FSP Interfaces for EDK II

- Platform interface
- Boot time hooks
- Runtime hooks
- Configuration options
- Payloads



OPEN SYSTEM
FIRMWARE



Specifications

Cloud System with Intel® FSP + EDK II

- Intel® FSP provides Intel silicon initialization modules
- EDK II provides the framework for creating platform firmware
- Platform specific modules are needed for supporting security, error handling, RAS and platform specific features

Summary and Call to Action

- Intel® Firmware Support Package (Intel® FSP) is a flexible and scalable firmware solution
<http://www.intel.com/fsp>
- Intel® FSP enables using EDK II to create UEFI platform firmware
<https://github.com/intelfsp> or
<https://github.com/tianocore/edk2-non-os>
- Get involved into Open System Firmware
<https://www.opencompute.org/projects/open-system-firmware>



Open. Together.

OCP Regional Summit
26–27, September, 2019