OPEN POSSIBILITIES.

Aptio OpenEdition: Holistic UEFI Solutions for the Open-source Ecosystem



Aptio OpenEdition

Holistic UEFI Solutions for the Open-source Ecosystem

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IS EMBRACING OPEN-SOURCE THROUGH OCP



AMI is committed to contributing to the opensource community with the goal to encourage

- Transparency
- Reliability
- Security

AMI wants to be a key player in driving the industry forward

- To encourage adoption of an industry standard solution
- By giving innovative features back to the community



Aptio OpenEdition(OE)









Open-Source trees are based off the Linux Foundation OpenBMC and EDK II trees

AMI develops additional valueadded features and security on top of these trees

AMI will maintain the base source and offer multiple levels of support options

Source trees are fully managed and maintained by AMI and contributed back to OCP & OpenBMC community



Open Source

- Open License
- Community Support
- Delayed distribution from AMI internal Tree



PRODUCTION EDITION



- ✓ Subscription License
- Essentials & Professional option
- ✓ LTS Long Term Support
- ✓ Live Tree
- ✓ Per-unit maintenance fee



OCP Marketplace



As a leader the Source trees in Open Compute Project (OCP) are <u>fully managed and maintained</u> by AMI with its world class engineer-to-engineer support

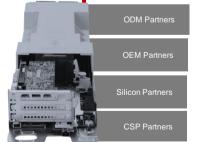


OPEN SYSTEM FIRMWARE

ODMs and CSP are shipping OCP platforms that are sold on the OCP marketplace



OCP ACCEPTED[™]



AMI's open-source trees are pulled from the EDKII trees and AMI develops additional value-add features on top of them AMI Core Contribution Community Contribution Security Patch **Bua Fixes**

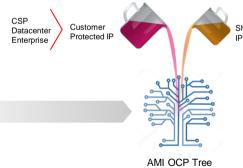
AMI "Cutting-edge" Live

Tree

AMI plans to push these trees to the OCP community on a periodic basis after thorough validation and is working with ODMs to target OCP marketplace systems



Point-of-use customers can then utilize this hardened open-source tree for their OCP server platforms



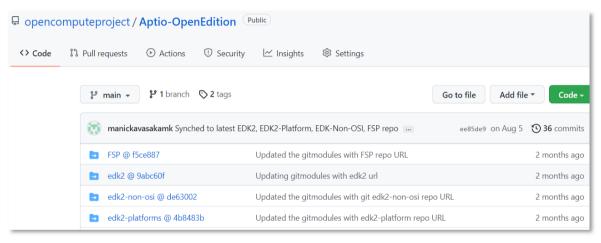


Jointly

Developed

Current Submission Status

https://github.com/opencomputeproject/Aptio-OpenEdition



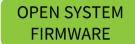


Approved as Incubation Project by IC

Sub-project to current Open System Firmware (OSF) project and falls under same governance









Project Goals



OPEN SYSTEM FIRMWARE



Provide the OCP community an opensource standard boot firmware solution



Contribute innovative features the community demands



Support the community when issues are found



Schedule group meetings to discuss any current issues and future plans



Fully committed to upstreaming changed back to upstream projects





Current Submission Features



OPEN SYSTEM FIRMWARE

Project is an EDKII project with standard peripheral support and ported to specific platforms

Support for:







Wiwynn/MiTAC TiogaPass platforms

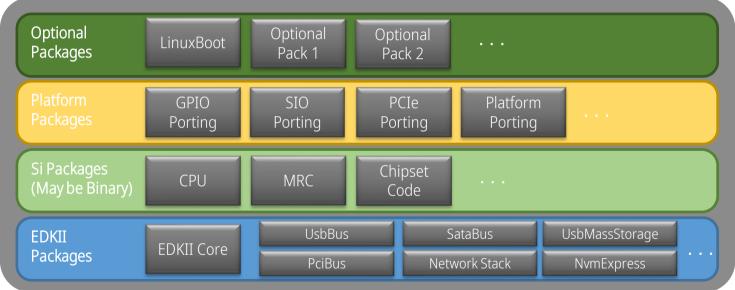
- Full UEFI boot support with SecureBoot enablement
- LinuxBoot support
- On every release, full testing on all supported platforms by the Repo with integrated testing of an opensource BMC solution under the OCP GitHub umbrella as well



Aptio OpenEdition Block Diagram



OPEN SYSTEM FIRMWARE



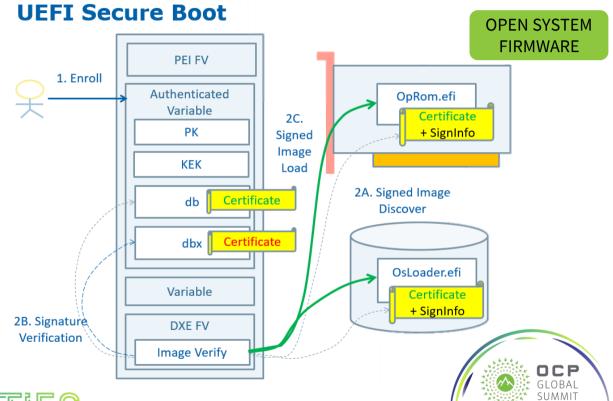


UEFI SecureBoot: Keeping the industry Secure



NOVEMBER 9-10, 2021

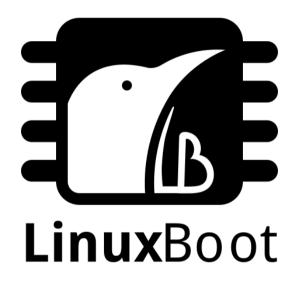
UEFI Secure Boot
ensures all external
code executed during
FW boot is properly
signed and
authenticated from a
DB controlled by the
platform owner!



LinuxBoot: Providing the Industry Flexibility







LinuxBoot brings in a small Linux kernel to the FW for eventual booting of the platform

Using Linux allows organizations with highly customized deployments the flexibility to implement higher level code



Upcoming Additions



OPEN SYSTEM FIRMWARE







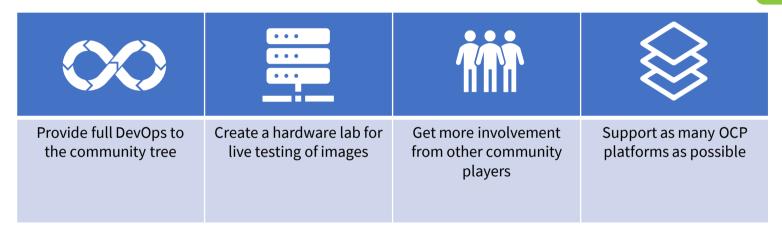




Goals for Future Improvement



OPEN SYSTEM FIRMWARE





Call to Action



Currently working on setup of logistics for group meetings, currently using OSF meeting for any items

OPEN SYSTEM FIRMWARE

- Contribution is already available, please review!
- If you would like your platform supported or have any questions, please come to the OSF meeting or use the GitHub project
- Watch a demonstration of Aptio Open Edition in AMI Booth B-16 during OCP Summit and visit AMI in the OCP Experience Center!

Current Submission: https://github.com/opencomputeproject/Aptio-OpenEdition



Thank you!

