



Spring 2019 UEFI Plugfest

April 8-12, 2019

Bellevue, Washington



presented by



The UEFI Forum



State of UEFI

Presented by Dong Wei
Spring 2019 UEFI Plugfest

Introduction

- Dong Wei
 - Vice President, UEFI Forum
 - Arm Fellow



Agenda



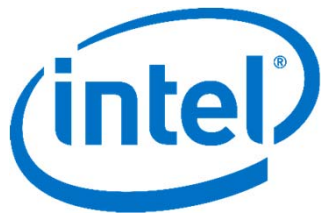
- Event Overview
- The UEFI Forum
- Specification Update
- UEFI Security & Open Source
- Fall 2019 UEFI Plugfest
- Questions





Event Overview

Made Possible by...



Tuesday,
April 9

Spring 2019
Session
Highlights

Time	Session Title	Presenters
9:30 – 10:00 am	UEFI Self Certification Tests (UEFI-SCT) and Firmware Test Suite (FWTS)	Supreeth Venkatesh, Arm Harry Hsiung, Intel Alex Hung, Canonical
10:00 – 10:30 am	UEFI Updates and Open Source Firmware evolutions on Arm	Matteo Carlini and Dong Wei, Arm
10:30 – 11:00 am	Risks to UEFI firmware due to growing attack surfaces	Dick Wilkins, Phoenix
11:00 – 11:30 am	From Runtime to Compile Time: Improving ASL Through Enhanced Namespace Resolution	Erik Schmauss, Intel
11:30 am – 12:00 pm	Microsoft UEFI Update	Jeremiah Cox, Microsoft
12:30 – 1:00 pm	Hardening Firmware Components with Host-based Analysis	Brian Richardson, Intel

Testing from 1:00 – 6:00 pm

Welcome Reception

- **Tuesday, April 8 from 6:00-7:30pm**
- *Embassy Suites by Hilton Seattle Atrium*
- Popcorn, Fresh Vegetable Platter, Cheese & Fruit Board and Spring Rolls
- Three drink tickets per person (deluxe brands, domestic beers, house wines, soft drinks)



Wednesday,
April 10

Spring 2019
Session
Highlights

Testing from 9:00 – 11:00 am

Time	Session Title	Presenters
11:00 – 11:30 am	Half Duplex controller support and Multi IO support in SPI framework	Pankaj Bansal, NXP
11:30 am – 12:00 pm	Improving UEFI Network Stack Performance	Maciej Rabeda, Intel
12:30 - 1:00 pm	Case Study: Removing SMM from Intel Platforms / second half of the lunch hour	Sarathy Jayakumar, Intel
1:00 – 1:30 pm	Support Secure UEFI and OPTEE OS together on Arm	Meenakshi Aggarwal, Udit Kumar, NXP
1:30 – 2:00 pm	Role Modeling Open Source Best Practices in Firmware	Mark Doran, Stephano Cetola, Intel
2:00 – 2:30 pm	Using Capsules for Firmware Configuration Update	Zachary Bobroff, American Megatrends Inc

Testing from 2:30 – 5:30 pm



The Evening Event: The Parlor Bellevue

Wednesday, April 11 from 6:00 - 9:00 pm

The Parlor Bellevue
Lincoln Square (third floor)
700 Bellevue Way NE Suite 300
Bellevue, WA 98004

Food: Mexican Grill Buffet

Beverages: Bottomless sodas, coffee, tea. Beer and wine (alcohol available for purchase)

Activities: Reserved lounge with Billiards, Foosball, Giant Jenga, Shuffleboard and Ping-Pong.

Sponsored by



Thursday,
April 11

Spring 2019
Session
Highlights

Testing from 9:00 – 11:00 am

Time	Session Title	Presenters
12:30 – 1:00 pm	UEFI topics for the manufacturing efficiency/second half hour of lunch	Rafael Machado, Flex Institute of Technology
1:00 – 1:30 pm	How Writing Portable UEFI Drivers Improves Reliability (and Helps Me)	Ard Biesheuvel and Leif Lindholm, Linaro
1:30 – 2:00 pm	Redfish Implementation for UEFI	Jason Spottswood, HPE
2:00 – 2:30 pm	Redfish Host Interface: UEFI and OS implications	Samer El Haj Mahmoud, Lenovo John Leung, Intel Mike Rothman, Intel

Testing from 2:30 – 5:30 pm

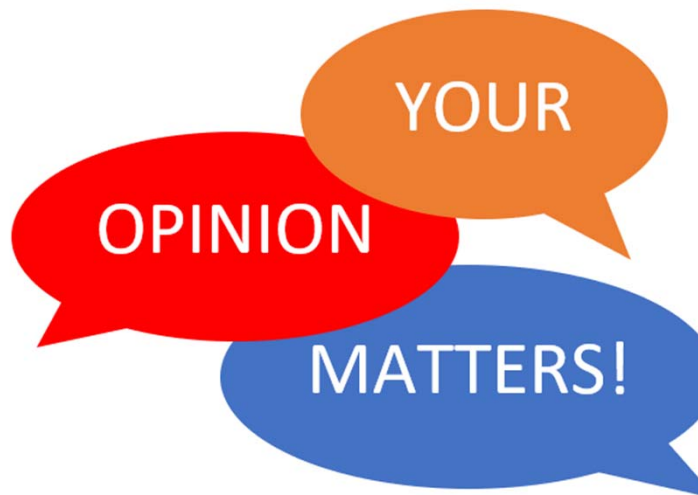
Afternoon Break

Speaker's Office Hours



- Afternoon Break Time
- Meet with the presenters after their sessions
 - Where: The Ballroom
 - When: 3:00 – 4:00 pm
- Soft drinks, coffee and sweets sponsored by





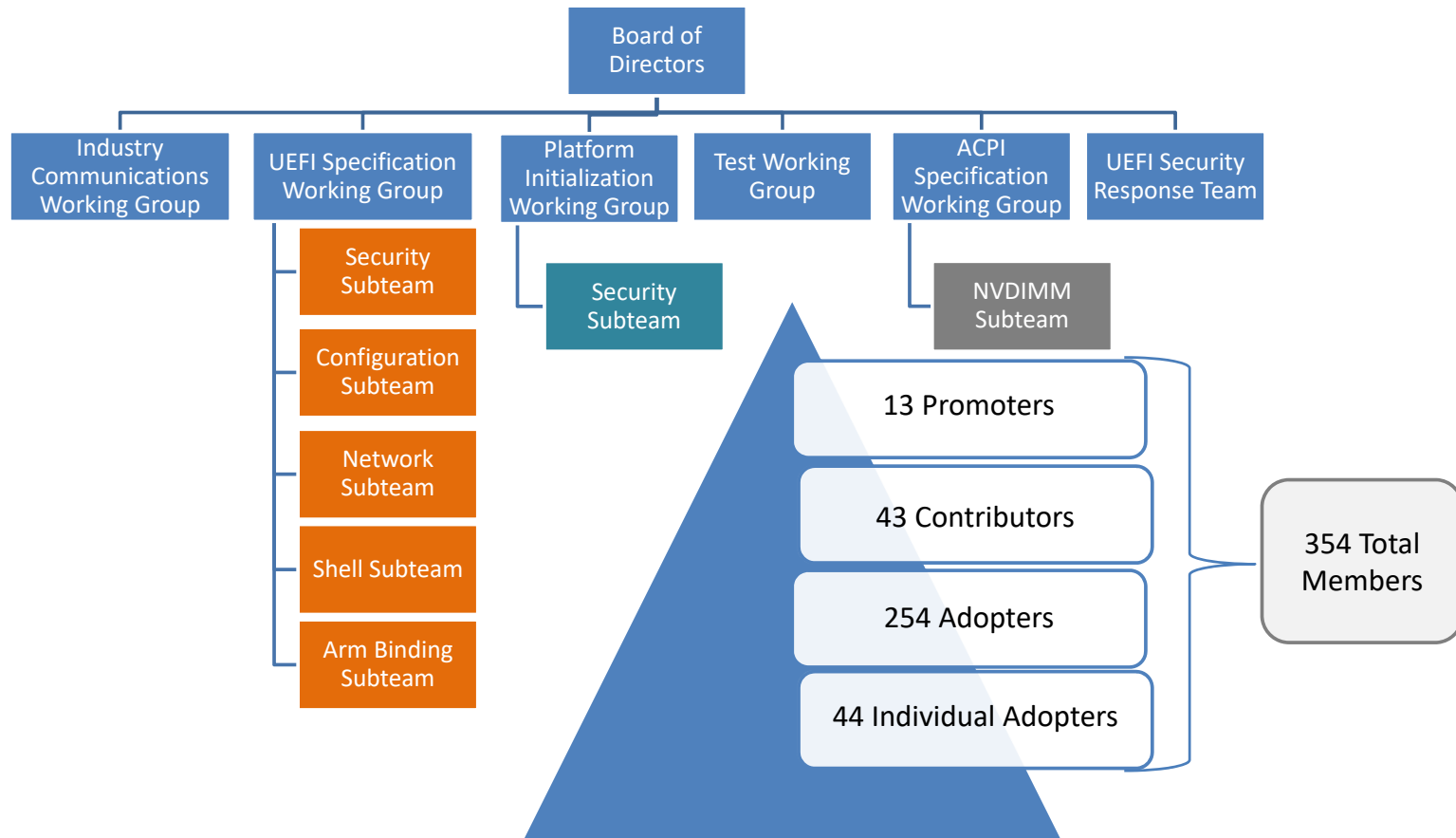
Event Survey: Your Feedback Please!

<https://www.surveymonkey.com/r/2019SpringUEFIPlugfest>



The UEFI Forum

UEFI Forum Overview





Specification Update

Latest Specifications



- **Updates Represent:**

- ACPI 6.3 – PCC Operation Region, I3C Host Controller, Generic Initiator, Peripheral-attached Memory, HMAT Enhancement, NVDIMM Health Error Injection and ARS Update, ARS Error Injection, GTDT Extension, Load Extension and Unload Deprecation, Arm SPE Support, etc.
- PI 1.7 - PEI Core PEIM Migration Support Change, SecCore/PeiCore BFV Requirement Change, MM MP Protocol issues, EFI_SW_DXE_BS_EC_BOOT_OPTION_LOAD_ERROR Extended Data, New Status Codes, PEI Delayed Dispatch, New Architectural PPI for PI PEI Core FV Location, etc.
- UEFI 2.8 – Redfish Support (Discover Protocol, REST EX Protocol, JSON Structure Protocol, JSON Capsule Support, REST Style Formset, etc.), Peripheral-attached Memory, EBC Requirement Removal, CCIX PER Log Error Structure, Runtime Calls May Return Unsupported, etc.



UEFI SCT Status

- Latest stable binary version - UEFI SCT 2.6 A is published at <https://uefi.org/testtools>
 - Source code was only available to Contributors
- UEFI SCT 2.7 A coming soon
 - Now open source development at <https://github.com/tianocore/edk2-test>
 - Tag edk2-test-stable201904 is intended as 2.7A beta quality for plugfest
 - UEFI Forum to recommend afterwards



FWTS Updates

- FWTS 19.02.00 updates tests for ACPI 6.3
 - <http://fwts.ubuntu.com/>
 - FWTS 19.03.00 intended as beta quality for plugfest
 - UEFI Forum to recommend afterwards



UEFI Security and Open Source Focus

UEFI Security



- Security will continue to be a concentrated effort for the Forum and the community.
- We will continue to maintain with errata and new content updates that reflect implementation experience with existing specification content.
- Broad architecture support continues.
- New UEFI webinar: Secure Coding:
<https://www.youtube.com/watch?v=fkZPVEhQUmc&feature=youtu.be>

Open Source

- Enable “Code-First” approach
- Encourage open source contributions
 - Increase in open source contributions in reference implementations, SCT and FWTS
 - Improve open source process



Fall 2019 UEFI Plugfest



- Details of the Fall Plugfest will be out soon
 - Location: Asia
 - Timeframe: Late October or early November
- Additional details will be available on the UEFI Forum website at www.uefi.org/events/upcoming



Questions?

Thanks for attending the Spring 2019 UEFI Plugfest

For more information on the UEFI Forum and UEFI Specifications, visit <http://www.uefi.org>

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