UEFI Forum Update

UEFI US Fall Plugfest – September 20 - 22, 2016

Presented by Dong Wei (The UEFI Forum)

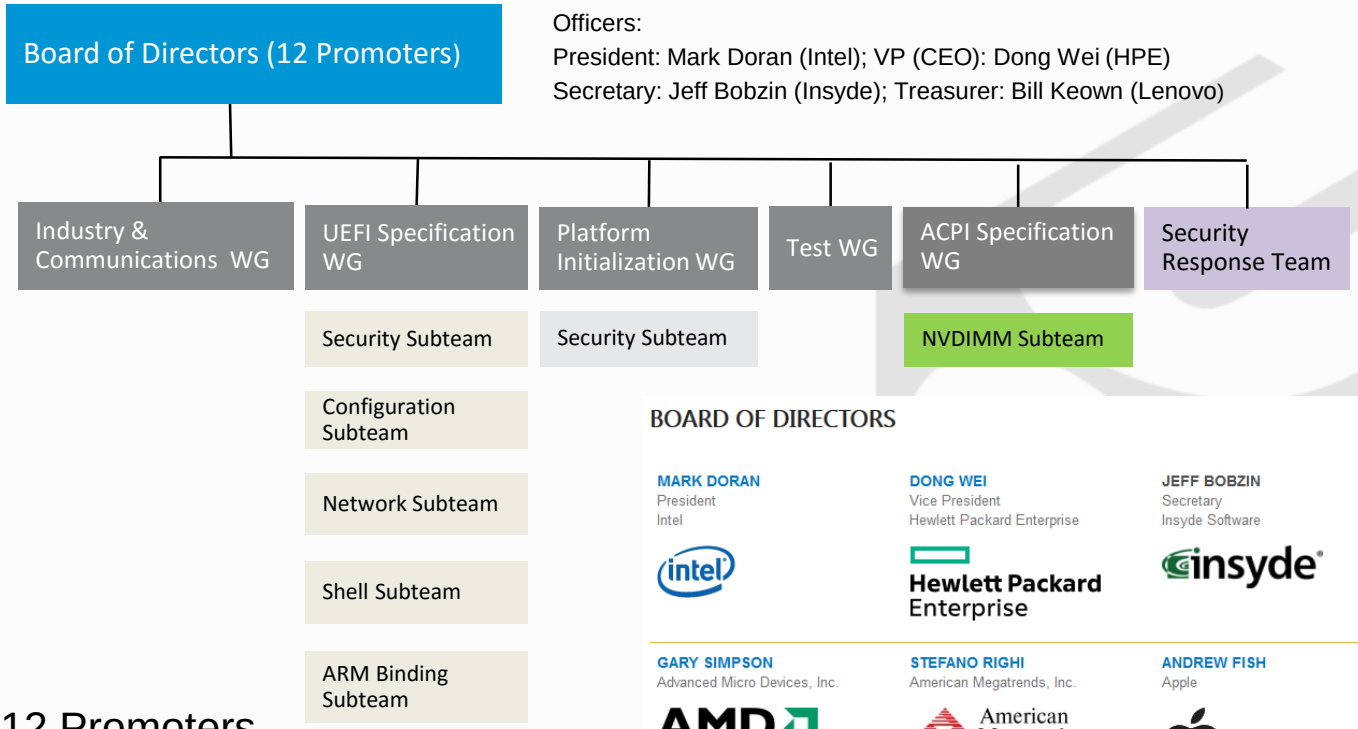
Agenda

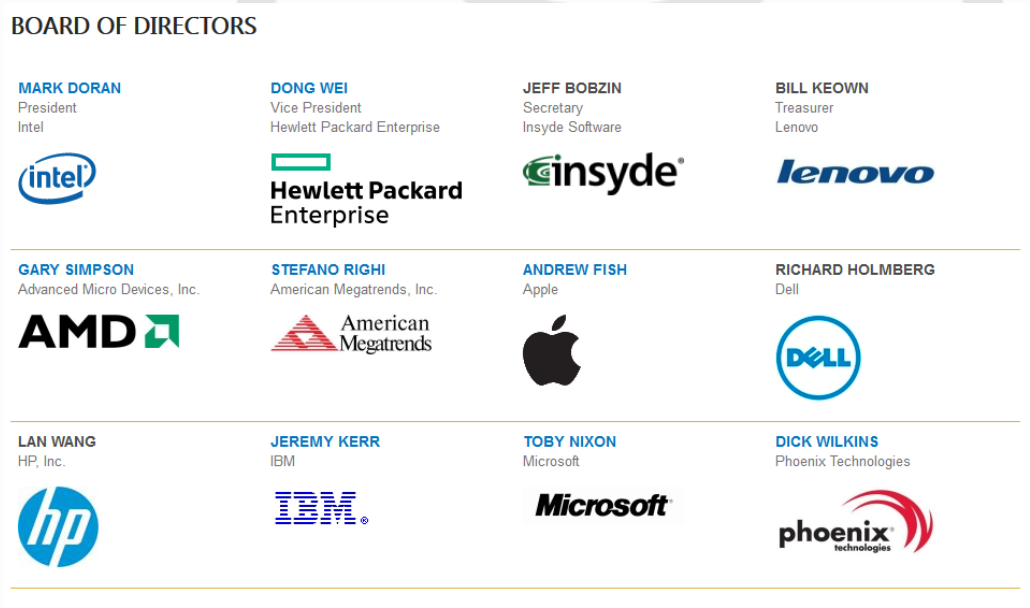
- Organization Update
- Specifications Update
- SCT Update
- Summary

Section Heading

Organization Update

The UEFI Forum





12 Promoters
41 Contributors
221 Adopters
36 Individual Adopters
Total: 310

Section Heading

Specification Update

Latest Specifications

- UEFI Specifications v2.6 (1/2016)
- ACPI Specification v6.1 (1/2016)
- UEFI Shell Specification v2.2 (1/2016)
- PI Packaging Specification v1.1 (1/2016)
- UEFI PI Specification v1.5 (adoption postponed)

What's Not So New…

- But need to be tested
  - UEFI 2.5 Network Enhancements
    - Boot from HTTP
      - HTTP API
      - HTTP Helper API
      - DNS v4/6
      - RAM Disk Device Pat
    - WiFi
      - EAP Support
    - TLS
    - Bluetooth
    - REST Protocol

What's New

- UEFI v2.6
  - Network Enhancements
    - Wireless MAC Connection II Protocol
    - RAM Disk Protocol
  - RAS
    - CPER Extension for ARM
  - User Interface
    - HII Font Ex, Glyph Generator, Image Ex and Image Generator Protocols
  - IO
    - SD/eMMC Pass Thru Protcol
    - Non-identity Mapped Address Translations in PCI Root Bridge and IO Protocols

What's New

- ACPI v6.1
  - Persistent Memory
    - NFIT Updates
    - NFIT Root Device _DSM
  - RAS
    - APEI Extension for ARM
    - ERST/EINJ max wait time
  - Management
    - Graceful Shutdown Clarifications
    - Wireless Power Calibration Device
  - IO
    - Interrupt-signaled Events

What's New

- UEFI Shell v2.2
  - Network updates
  - Allow Execute() to not nest new shells
  - Add command line parameter to auto exit
  - New dh features
  - Setvar command re-factor
  - New command features for disconnect, comp, dmem, cls, reset, pci, bcfg, dmpstore

What's New

- PI Packaging 1.1
  - Remove XSD reference
  - Ability to convey settings with discrete subsettings
  - Localized name to a package
  - Ability to convey detailed produces information
  - Ability to convey usage for PCDs from binary modules
  - Ability to convey detailed consumes information
  - Ability to convey PCD display information
  - Ability to convey enumeration-like information for PCD
  - Abstract type support
  - Ability to convey detailed BY_START/TO_START interaction
  - Ability to convey product limit information about Protocol/PPI/GUIDs

What's New

- PI v1.5 (current Final Draft)
  - SMM Environment to support newer architecture/platform designs
  - ARM extensions to Vol 4
  - Additional I2C PPIs
  - Add PPI to allow DEC to pass HOBs to PEI
  - Pre-DXE initialization of the SM Foundation
  - Handling PEI PPI descriptor notifications from SEC
  - SM stand-alone infrastructure
  - Communicate protocol enhancements
  - New MP protocol
  - Propagate PEI-phase FV verification status to DXE
  - Add SD/MMC GUID to DiskInfo protocol
  - Add EFI_FV_FILETYPE_SMM_CORE_STANDALONE file type
  - A number of errata

Section Heading

SCT Update

Latest SCTs

- UEFI SCT 2.4B
- Recommend FWTS Release 15.08.00 as ACPI SCT 5.1

Latest SCTs

- Under Development
  - UEFI SCT 2.5
    - Beta now, Release by the end of 2016
  - UEFI SCT 2.6
    - Alpha now, Beta@ Spring Plugfest
    - Release by mid 2017
  - FWTS Release as ACPI SCT 6.0/6.1
    - Recommend as ACPI SCT 6.0 by the end of 2016
    - Recommend as ACPI SCT 6.1 by mid 2017

SCTs for US Plugfest

- UEFI
  - SCT 2.5 Beta
    - Binaries/2016SeattlePlugfest is located on the master branch of https://github.com/UEFI/UEFI-SCT.git
  - SCT 2.6 Alpha
    - Binaries/2016SeattlePlugfest is located on the UEFI-2.6-SCT-DEV branch
- ACPI
  - FWTS 16.09.00
    - Tar: http://fwts.ubuntu.com/release/fwts-V16.09.00.tar.gz
    - PPA: https://launchpad.net/~firmware-testing-team/+archive/ubuntu/ppa-fwts-stable
    - Release notes: https://wiki.ubuntu.com/FirmwareTestSuite/ReleaseNotes/16.09.00

Section Heading

Summary

Summary

- The current State of the Forum is Strong
  - UEFI/ACPI are adopted on x64 Client and Server Systems
  - UEFI/ACPI are required for SBSA/SBBR-compliant ARM Servers
- However, the technology landscape is dramatically changing. UEFI/ACPI need to embrace the 3rd Platform era.

Thanks for attending the UEFI Spring Plugfest 2016

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