Company	Session Title & Abstract	Presenter	Suggested Date/Time
Phoenix Session 1	Title : Increasing risks to UEFI firmware due to growing attack surfaces	-Glenn Plant	Tue 10/16 9:30 – 10:00
	Abstract: The addition of networking stacks and services, the necessity for "automatic" firmware updates and other feature enhancements are presenting new attack surfaces in UEFI based firmware for bad actors to probe and for defenders to protect. We will provide some examples of dangerous and poorly implemented features and make proposals for actions the UEFI community should consider.		
ARM Session 2	Title: UEFI updates and Secure Software Isolation on ArmAbstract: The session will discuss the latest updates on UEFI Requirements into the new versions of SBBR & EBBR (for the Embedded world) Arm specifications. It will also present the challenges faced in the increasingly complex Secure world software ecosystem and the enhancements proposed to introduce isolation and virtualization to the existing Secure world Software architecture from both a specification and open source Firmware perspective.	-Matteo Carlini -Dong Wei	Tue 10/16 10:00 – 10:30
Insyde Software Session 3	Title: UEFI and the SDL – Security Development LifecycleAbstract: In this session, we examine how the SecurityDevelopment Lifecycle can be applied to the unique requirementsof UEFI firmware to identify and minimize security and privacyrisks.	-Trevor Western	Tue 10/16 11:00 – 11:30
AMI Session 4	Title: Advanced TPM UsageAbstract: Trusted Platform Modules (TPMs) have been an integralpart of platform security for more than 10 years. TPMs haveevolved through the years and gone through several technology	-HPBird Chen	Tue 10/16 11:30 – 12:00

	updates. However, many security based capabilities of a TPM may have been overlooked from a firmware perspective. This presentation covers TPM usage from a generic standpoint for firmware and new applications of TPMs today including TPM usage on different architectures (x86 and ARM), innovative solutions based on TPM usage, and updates on industry requirements.		
Canonical Session 5	Title: Building Customized Tests with Firmware Test SuiteAbstract: Firmware Test Suite (FWTS) is an open-source test suitelicensed by GPL which ensures everyone is free to use, modify andredistribute FWTS. This command line tool is not only easy to usebut also simple to customize for different requirements. FWTScomprises a large set of tests that can be selected to develop testscripts for different projects. FWTS's extensible framework enablesdevelopers to add new tests or to reuse existing code in astraightforward way. Additionally, customized FWTS can bedistributed and updated easily when it is built on LaunchpadPersonal Package Archives (PPA).	-Alex Hung	Wed 10/17 12:30 – 13:00
Intel Session 6	 Title: System and Device Firmware Updates using Unified Extensible Firmware Interface (UEFI) Capsules Abstract: Firmware is responsible for low-level platform initialization, establishing root-of-trust, and loading the operating system. Signed UEFI Capsules define an OS-agnostic process for verified firmware updates, utilizing the root-of-trust established by firmware. The open source FmpDevicePkg in TianoCore provides a simple method to update system firmware images and device firmware images using UEFI Capsules and the Firmware Management Protocol (FMP). This session describes the TianoCore capsule implementation, implementing FMP using FmpDevicePkg, creating Signed UEFI Capsules using open source tools, and an update workflow based on the Linux* Vendor Firmware Service (fwupd.org). 	-Brian Richardson	Wed 10/17 13:00 – 13:30

NXP	Title: Capsule update with MM mode	-Udit Kumar	Wed 10/17
Session 7		-Meenakshi Aggarwal	13:30 - 14:00
	Abstract: UEFI defines capsule update feature in very nice and		
	descriptive way, but implementation of actual upgrade part is left		
	on developer. To update firmware, some architecture follows the		
	two reset procedure. First to start upgrade process and second to		
	use newly flashed image. With the help of MM mode, this update		
	can be done in same cycle. This will save time to upgrade		
	firmware. Also using MM mode, which runs on secure side of		
	machine, will take care of security vulnerability. In this talk, we will		
	speak, how to do firmware upgrade in one reset cycle using MM		
	mode.		
Linaro	Title: How writing portable UEFI drivers improves reliability (and	-Leif Lindholm	Wed 10/17
Session 8	helps me)		14:30 - 15:00
	Abstract: UEFI provides all the interfaces needed to write		
	software portable between different architectures. However,		
	many current executables have only been validated on a single		
	platform.		
	Through a joint effort between SuSe and Linaro last year, we		
	emulated X64 option ROMs on ARM systems which let us find		
	some common mistakes you need to avoid when writing drivers to		
	run on ARM or work through more than accident elsewhere. This		
	talk gives a summary of common mistakes, how to avoid them,		
	and other things that would make my life easier.		
Intel	Title: TianoCore Updates: Tags, Testing & Platforms	-Brian Richardson	Wed 10/17
Session 9		-Leif Lindholm	15:00 - 15:30
	Abstract: TianoCore is an open source firmware community		
	supported by several members of the Unified Extensible Firmware		
	Interface (UEFI) Forum. This presentation provides an update on		
	three major projects related to EFI Development Kit II (EDK II), an		
	open source implementation of UEFI.		
	• Stable Tags: The first "stable tag" release was added to EDK II in		
	August 2018. These tags are on a three-month cadence, with the		
	goal of integrating major features at the beginning of each release		

cycle. This presentation discusses the stable tag workflow, and how the community can participate in the process.	
• Sample Platforms: TianoCore has migrated hardware platform support to the edk2-platforms tree, providing a repository for stable projects and firmware under development. This session provides an overview of available platforms and steps for adding new platform projects.	
• MicroPython* Test Framework for UEFI: In August 2018, a MicroPython engine for UEFI and related test framework were released for community evaluation. Memory and size optimizations make MicroPython ideal for pre-OS applications. This session provides an overview of the project's status and long- term goals.	