



Session 101-C Mobile Applications

Tuesday 8:30-9:35pm

Santa Clara, CA
August 2015

Audio-Visual Sponsor



Mobile Applications

Alan Niebel, Session Chair, WebFeet Research

Ben Wu, Technical Marketing Manager, SK Hynix, “UFS Is Ready to Power Next-Generation Mobile Devices”

Elad Baram, Director Product Marketing Mobile and Connected Devices, SanDisk, “Using PCIe/NVMe in Mobile Devices”

David Ghodsizadeh, Mobile Storage Product Marketing, Samsung Semiconductor, “UFS Presents Biggest Opportunity for Flash”

Rajeev Gulati, CTO, Data I/O, “New Programming Technology for High Density eMMC Devices”

EFD: Positioning

Solid State Storage Hierarchy

Removable Cards / USB Drives – ext controller

Embedded Flash Drives – simple controller +
NAND in BGA-type package: eMMC, UFS

Client SSD – sophisticated controller + NAND

Enterprise SSD – write amp, ECC, DSP high
compute controller + NAND +Host interface

NVDIMM (in-memory) – I/F with memory bus +
NAND, high end controller – flatten hierarchy

UFS: Moving EFD to High Speed

EFD Mobile Applications – Move to Speed

Smart Phones – Need to ‘not wait’, paging,
download, search & talk – dual channel UFS
Tablets – compute function, near SSD, speed
need

Client SSD – possible low power PCIe/NVMe

Automotive – UFS storage hub – enables WiFi,
Infotainment, ADAS, soon autonomous cars

Consumer – Camcorder, GPS, Smart Watch,
Wearables, HDTV, Projector

