



Android BSP Adaptation – Samsung SoC

Android BSP adaptation for the range of Samsung boards with Exynos SoC

Challenge

- React fast to adapt Android for the boards released every 3 week
Kernel, u-boot, DTB, Platform, HAL, peripherals like DMA, UART, SPI, I2C..

Outcome

- Maintained the kernel up to 3.18 and Android M
- Developed/updated drivers for various peripherals
- Power management – Dev frequency, CPU frequency, sleep and idle

WHAT DID GADGEON DO?

Software BSP adaptation for Samsung boards with ExynosSoC for mobile development branch.

PLATFORMS/ TECHNOLOGIES USED

- Understand HW design
- Exynos Soc (32 bit, 32 bit biglitttle, 64 bit biglitttle)
- U-boot porting – customization for android kernel, emmc drives, secure booting, uboot display
- Device tree customization for the boards
- Android HAL components like audio, storage
- Device drivers for DMA, UART, SPI, I2C, GPIO, SD/MMC, USB, Audio
- Power management
- Lauterbach T32 based debugging



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