

(S5PV310 Mango310) MAC Address 설정 Porting Guide

```
## U-boot
"common/main.c" 추가
{
    char boot_cmd[100];
    char *peth = getenv ("ethaddr");
    char *boorargs_char=getenv ("bootargs");
    sprintf(boot_cmd, "%s ethaddr=%s", boorargs_char, peth);
    setenv("bootargs", boot_cmd);
}
```

u-boot를 다시 Write를 했습니다.

```
[root@HP-note-jji image]# fastboot flash bl2 bl1ah
sending 'bl2' (16 KB)...
OKAY [ 0.012s]
writing 'bl2'...
OKAY [ 0.034s]
finished. total time: 0.047s

[root@HP-note-jji image]# fastboot flash bootloader u-boot.bin
sending 'bootloader' (327 KB)...
OKAY [ 0.058s]
writing 'bootloader'...
OKAY [ 0.692s]
finished. total time: 0.749s
```

Booting 후

uboot에서 아무키나 누르고, 아래와 같이 설정 합니다.

```
Mango310 # setenv ethaddr 04:32:F4:FE:AD:9A
Mango310 # setenv bootargs "console=ttySAC1,115200n8 androidboot.console=ttySAC1"
Mango310 # saveenv
```

리셋 후

```
Mango310 # print
baudrate=115200
bootargs=console=ttySAC1,115200n8 androidboot.console=ttySAC1 ethaddr=04:32:F4:FE:AD:9A
bootcmd=movi read kernel 0 40008000;movi read rootfs 0 41a00000 100000;bootm 40008000
41a00000
bootdelay=3
ethact=smc911x-0
ethaddr=04:32:F4:FE:AD:9A
gatewayip=192.168.0.1
ipaddr=192.168.0.20
netmask=255.255.255.0
serverip=192.168.0.10
```

확인 할 있다.

이제 커널을 수정 해 보자

"driver/net/smc911x.c" 파일

```
static int __devinit smc911x_drv_probe(struct platform_device *pdev)
..
//CRZ begin
memcpy(dev->dev_addr, config->dev_addr, 6); /* CRZ crazyboy */
 printk("CRZ User MAC address: %pM\n", config->dev_addr);
//CRZ end
/* Check if mac address has been specified when bringing interface up */
if (is_valid_ether_addr(dev->dev_addr)) {
    smc911x_set_hw_mac_address(pdev, dev->dev_addr);
    SMSC_TRACE(pdev, probe,
               "MAC Address is specified by configuration");
} else if (is_valid_ether_addr(pdev->config.mac)) {
    memcpy(dev->dev_addr, pdev->config.mac, 6);
    SMSC_TRACE(pdev, probe,
               "MAC Address specified by platform data");
} else {
```

```
"include/linux/smsc911x.h"
```

```
/* platform_device configuration data, should be assigned to
 * the platform_device's dev.platform_data */
struct smsc911x_platform_config {
    unsigned int irq_polarity;
    unsigned int irq_type;
    unsigned int flags;
    unsigned int shift;
    phy_interface_t phy_interface;
    unsigned char mac[6];//EEPROM
    unsigned char dev_addr[6]; /*CRZ by crazyboy */
};
```

"arch/arm/mach-exynos/mach-smdkv310.c" 파일

```
static struct smsc911x_platform_config smsc9215_config = {
    .irq_polarity      = SMSC911X_IRQ_POLARITY_ACTIVE_LOW,
    .irq_type          = SMSC911X_IRQ_TYPE_PUSH_PULL,
    .flags             = SMSC911X_USE_16BIT | SMSC911X_FORCE_INTERNAL_PHY,
    .phy_interface     = PHY_INTERFACE_MODE_MII,
    .mac               = {0x00, 0x80, 0x00, 0x23, 0x45, 0x67},
};

static struct platform_device smdkv310_smsc911x = {
    .name              = "smsc911x",
    .id                = -1,
    .num_resources     = ARRAY_SIZE(smdkv310_smsc911x_resources),
    .resource          = smdkv310_smsc911x_resources,
    .dev               = {
        .platform_data = &smc9215_config,
    },
};

//CRZ Begin
/* need to get the ether addr from armboot */
static int __init ethaddr_setup(char *line)
{
```

```

char *ep;
int i;

/* there should really be routines to do this stuff */
// Changed by CRZ. icanjji. 2011.04.20
for (i = 0; i < 6; i++) {
    smsc9215_config.dev_addr[i] = line ? simple_strtoul(line, &ep, 16) : 0;
    if (line)
        line = (*ep) ? ep+1 : ep;
}
 printk("User MAC address: %pM\n", smsc9215_config.dev_addr);
return 0;
}
__setup("ethaddr=", ethaddr_setup);
//CRZ end

```

컴파일 하여 확인 결과 이상없이 동작합니다.

```

shell@android:/ # netcfg
lo      UP          127.0.0.1/8  0x00000049 00:00:00:00:00:00
eth0    DOWN        0.0.0.0/0   0x000001002 04:32:f4:fe:ad:9a
sit0    DOWN        0.0.0.0/0   0x000000080 00:00:00:00:00:00
ip6tnl0 DOWN        0.0.0.0/0   0x000000080 00:00:00:00:00:00
mlan0   UP          192.168.3.104/24 0x00001043 00:22:58:6b:8c:8a
uap0   DOWN        0.0.0.0/0   0x00001002 00:22:58:6b:8c:8a
wfd0   DOWN        0.0.0.0/0   0x00001002 00:22:58:6b:8c:8a

```