Firmware Update Application Guide

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Use Files Introduction

- **Fw_update :   BurnAP Tool**
- **Device_Config.ini :   Tool settings**
- **SerialNumber.txt :   Mask parameter**
- **XXXXX.bin :   FW binary file**

Use Terminal Window

Method

1. Enable Chrome OS Developer Mode

2. (No need to login to the user account)

3. Press Ctrl + ALT + F2 (->) into Chrome terminal window.

4. Login localhost host account

    1. localhost login: root

Use USB Hard Drive

- **Put Use Files(4 files) into USB hard drive**
- **Plug in your USB hard drive to your USB port**
- **Find out what name your block device:** fdisk –l

```
Device     Boot Start      End  Sectors  Size Id Type
/dev/sdc1  *      8192 15523839 15515648  7.4G  b W95 FAT32
```

- **Create mount point:** mkdir /media/usb1
- **Mount USB Drive:** mount /dev/sdc1 /media/usb1
  ('sdc1' is system distributed path by platform)
- **Accessing USB Drive:** cd /media/usb1

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Device_Config.ini

- **OpenSpecDev**
  - 1：Restricted burning by PID / VID (default)
  - 0：Unrestricted
- **Rework**
  - 1： Depend on SerialNumberAndReworkAddress (default)
  - 0： Disable
- **WriteSeiralNumber**
  - 1：Enable Write SN which is from SerailNumber.txt
  - 0：Disable (default)

- **SerialNumberAndReworkAddress**
  - 1 : write to iSerialNumber (default)
  - 0 : write to iManufacturer

Device_Config.ini

- **SensorInitialTime(ms): 2500**
  - fine tune sensor initial time (Adjusted by engineering)
- **EraseDelayTime(ms): 1000**
  - fine erase delay time (Adjusted by engineering)
- **DeviceFileName: XXXXXX.bin**
  - F/W Binary file name. (User fill in)
- **ReserveCalibrationData: 0**
  - 1：Enable Write Calibration from Calibration.ini for special sensor. (HM1091)
  - 0：Disable (default)
- **CalibrationSectorSize: 3000**
  - Read the specified calibration size.

FW Update Command

- **localhost /media/usb1 # ./fw_update Para1**
  - Para1 field
    - -1 is 64kB FW update
    - -2 is 128kB FW update

- **Example**
  - ./fw_update -2
    - Update 128KB Firmware and Keep the serial number information.
  - ./fw_update -getver
    - Get Device Firmware version.
  - ./fw_update -getbcd
    - Get Device BCD version.

FW Update Result