MSM8909 Android QRD Bring up

Version 0.1

Revision History

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# Pre-Requisites

1. install required packages using below command

$ sudo apt-get install bison g++-multilib git gperf libxml2-utils make zlib1g-dev:i386 zip liblz4- tool libncurses5

1. Download repo tool by running below commands

mkdir ~/bin

URL: <http://commondatastorage.googleapis.com/git-repo-downloads/repo> ~/bin/repo

chmod a+x ~/bin/repo

export PATH=~/bin:$PATH

Or execute below command to install required tools.

1. sudo apt-get install phablet-tools

# Build compilation process:

1. Download and sync the source code

Download source code from Qualcomm's create-point, extract it and run "sync.sh" under "<Extracted-path>/LINUX/" path

1. Compile and build the source code by using lunch and make commands.

>> source build/envsetup.sh

>> lunch <select respective chipset flag number>

>> make -j8

# Flashing Procedure:

Flash the all subsystems from meta and apps images

1. adb reboot bootloader: To keep the device in fastboot mode
2. flash all images by using fastboot commands. Use fastboot\_complete.py file to flash all required images or follow below guidelines.

<https://android.gadgethacks.com/how-to/complete-guide-flashing-factory-images-android-using-fastboot-0175277/>

<https://forum.xda-developers.com/android/help/adb-fastboot-commands-bootloader-kernel-t3597181>

1. “fastboot reboot" to restart the device

# 

# Challenges Faced:

1. **MSM8909.3.1.1 OEM link broken issue:**

Unable to download MSM8909 AMSS OEM build from create point as the link was broken.

**Resolution:** Ableto resolve this issue by following up with Qualcomm CE team.

1. **JDK version issue:**

To build Android version-8.0, we need open jdk-8 version. Tried to switch the JDK version to 8 by using below command. But still build process was failing.

>> update-alternatives --config java

**Resolution:** To fix this issue we follow below solution

sudo apt-get purge openjdk-\* icedtea-\* icedtea6-\*

sudo apt-get update

sudo apt-get install openjdk-8-jdk

java -version

1. **Build Flashing issue:**

Tried to flash only apps build. But the device was not coming out of fastboot mode.

**Resolution:** To overcome this issue we run "fastboot\_complete.py" script, to flash complete build with \*.mbn files.