EC2x&AG35-Quecopen

DFOTA Upgrade Package Making Method

LTE Module Series

Rev. EC2x&AG35-Quecopen_DFOTA Upgrade Package Making Mehod_V1.0

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Status: Preliminary

Our aim is to provide customers with timely and comprehensive service. For any assistance, please contact our company headquarters:

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About the Document

History

Revision	Date	Author	Description
1.0	2017-11-15	Ramos ZHANG/ Thomas ZHANG	Initial

Contents

1.1.
1.2.

Figure Index

1 Steps of Making DFOTA Package

1.1 **Making targetfiles.zip files of original and target firmware**

In the firmware package, the original files are collected, compressed and saved in upgrade\targetfiles.zip, which is provided for making DFOTA package. During the development process, OpenLinux users may modify the files of boot.img, rootfs and download the modified files into the module, which will make it different from the original files saved in targetfiles.zip. This will cause DFOTA package made from targetfiles.zip to fail to update. Thus, when users release their own firmware, please update targetfiles.zip file

A.   Copy the original file targetfiles.zip to Ubuntu system and unzip it:

unzip -d ./target ./targetfiles.zip	Execute this command to unzip targetfiles.zip to target directory

B.   Replace mdm9607-perf-boot.img file in targetfiles

Replace the two files of boot.img, recovery.img in BOOTABLE_IMAGES which is unzipped from Step A with users' mdm9607-perf-boot.img in the firmware package.

Figure 1

C.   Replace rootfs

After unzipping targetfiles.zip, delete all the files in SYSTEM directory except firmware directory and all the files in firmware directory.

Then copy all the files except firmware directory in ql-ol-rootfs directory compiled in SDK to SYSTEM
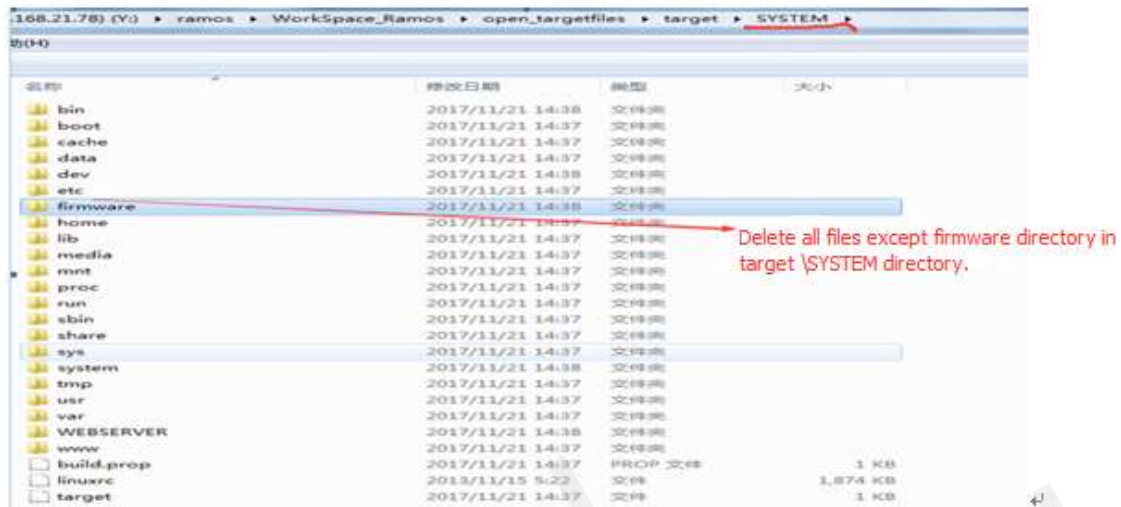
directory.

Figure 2

D.   Repackage to generate targetfiles.zip
Under target directory Execute below command to repackage:

```
zip -qry0 ../targetfiles.zip ./*
```
The regenerated targetfiles.zip can be found in the upper directory of target directory.

1.2.

Making DFOTA Package

Environment: Ubuntu 14.04 64bit

A.   Unzip AG35_releasetools

```
tar –xzf AG35_releasetools.tar.gz
```

B.   Install the Tool

```
cd AG35_releasetools
```

\# Copy libbz2.so.0.* that ./bsdiff is dependent on to system library directory;

```
sudo cp -P libbz2.so.0* /lib/x86_64-linux-gnu/
```

C.   Enter AG35_releasetools directory, then copy targetfiles.zip file in upgrade directory of the two different firmware packages to v1 and v2 directory respectively, which is to copy targetfiles.zip of the current running version to v1 directory and copy targetfiles.zip of the target version to v2 directory.

D.   /update_gen.sh   a

Note: Input parameters such as: < m --modem, l --linux, o --boot, a --all >, users input parameter a.

update.zip generated in this directory is the final DFOTA package. Please copy it to corresponding http,ftp servers.

Note: If it's not allowed to copy the files or execute the command, please execute chmod in this directory to add permissions.