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HUAWEI CM651

SD Card Upgrade Guideline

HUAWEI CM651

SD卡升级指导书

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1 SD 卡升级准备工作 Preparing for SD upgrade

- (1) 准备一张新的SD卡，并且必须是格式化为FAT32或FAT16；
- (2) 在SD卡根目录下创建“update”目录,字母都是小写；
- (3) 将升级包中的“Boot_image”、“ App_image”、“ EFS_image”、“ OEMINFO_image”四个目录和文件“sd_update_boot_app_efs.dat”（或者“sd_update_app_efs.dat”）复制到“update”目录下；
- (4) 升级过的SD卡中可能会出现几个新文件夹，对SD卡升级不会产生影响，不用理会。同时SD卡的根目录下还可能会生成一个日志文件（sd_update_log.txt），该文件记录了升级全过程，通过该日志文件可以判断升级是否成功，也可以帮助查找升级过程中出现的问题。如果升级失败，请将该文件移交研发人员分析失败原因。**注意：目前没有日志文件，如果出错，请将手机屏幕上的信息提供给研发。**
- (5) 升级过程中一定要保证电池有足够的电量，至少要保证有两格的电量。
- (6) **如果升级包是压缩包，必须在简体中文操作系统的电脑上解压软件版本包，然后再将解压后的软件拷贝到T卡中（该拷贝的操作在简体/繁体系统的电脑上操作均可）**

- (1) Prepare a new SD card which must have been formatted to FAT32 or FAT16.
- (2) Create “update” directory in SD root directory
- (3) Copy the “Boot_image”、“ App_image”、“ EFS_image”、“ OEMINFO_image” “sd_update_boot_app_efs.dat” (or “sd_update_app_efs.dat”) to “update” directory.
- (4) After upgrade, some new folders and other files will be created in SD card, and we do not need to take care of that. Another upgrade log file maybe also created in SD boot directory which records the upgrade information, and the log file may be useful for finding the reason why upgrade fails. **Note: if the fail happened, please copy all information on the screen to us.**
- (5) Make sure the battery has enough energy (no less than two levels).
- (6) **The compressed upgrade package should be uncompressed in Simple Chinese Version Windows OS.**

2 SD 卡升级 SD Card Upgrade

2.1 SD 卡升级提供两种下载方式 Two Upgrade Methods

- (1) 工程菜单下载：适用于手机在工程状态下进行软件升级。
 - (2) 强制下载：针对手机无法正常开机的情况，正常情况下不需要此操作。
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- (1) Engineering menu download: This method is used for the handset which can power on normally.
 - (2) Force download: This method is used for the handset which cannot power on normally.

2.2 工程菜单下载 Engineering Menu Download

- (1) 插入SD升级卡；
 - (2) 待机界面下输入##497613后按send键，选择 SD Download，然后选择ok；
 - (3) 升级之前会触发NV备份（如果之前手机没有备份过），然后重启进入BOOT升级；
 - (4) 升级过程中LCD屏幕会显示升级进度；
 - (5) 升级完成后手机重启,同时触发NV项恢复操作；
 - (6) 手机进入待机界面后，输入 “*#20080808#*” 后按send键，选择 “Factory Info”，查看版本号是否与版本升级指导书中的描述一致，确认正确后可以拔卡。
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- (1) Insert the SD card within upgrade files;
 - (2) Input ##497613 in idle mode, then press ‘send’, select ‘SD Download’ and press ‘ok’;
 - (3) NV backup will be triggered if there is no NV backup data, then the phone will reset to download mode;
 - (4) The LCD will display the process of SD Card downloading;
 - (5) After downloading, NV restoring will be triggered;
 - (6) In idle mode, input ‘*#20080808#*’ and press ‘send’, select ‘Factory Info’, make sure the version is right in” HUAWEI XXXX USB Upgrade Guideline”.

2.3 强制下载 Force Download

如果工程菜单下载失败，可以使用强制下载。方法有如下两种：

- (1) 手机插入电池（不能出现闪屏现象，若出现，可以拔出电池等待5秒钟后再插电池），按住“8”键（触摸屏为“send”+“volume up”键），再点击“Power”键（不要长按Power键），手机会进入SD强制下载，具体下载过程和工程菜单下载类似。
- (2) 手机没有插入电池，按住“8”键（触摸屏为“send”+“volume up”键），再插充电器，手机也会进入SD强制下载。建议使用充电器进行强制升级。如果下载仍然失败，可尝试换一张SD卡进行强制升级。

If the handset cannot power on normally, force download can be used in two ways:

- (1) Insert a battery (if the LCD glints, take out the battery for 5 seconds, then insert it again), hold pressing the keys '8' ("send" + "volume up" for touch) and hit the key 'power' (please do not hold pressing this key). The force download will start, and the upgrade process is similar to engineering menu download.
- (2) If the handset has not a battery, hold pressing the keys '8' ("send" + "volume up" for touch) and insert the charger, the force download will start too. We suggest use this way to start force download.

3 异常现象与处理 Upgrade Failed

- (1) 若SD卡初始化失败：确认手机是否插入SD卡、确认SD卡是否可用，确认手机boot版本是否支持SD卡升级（简单的检测方法是看其是否支持SD卡的强制下载功能）。
 - (2) 若打开文件失败：确认SD卡的根目录下是否有升级文件。
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- (1) If SD card initialize failed, check the SD card, make sure it's a good card, and the handset support SD upgrade;
 - (2) If file open failed, make sure all upgrade files are copied to the SD boot directory.