

How to add file to USRDATA Image

1. Class for build USRDATA image:

/meta/meta-mediatek/classes/mkusrdata.bbclass

```
STATE_DIR_IMAGE_SIZE ?= "${MKUBIFS_USRDATA_IMAGE_SZ}"
STATE_DIR_IMAGE_PATH = "${DEPLOY_DIR_IMAGE}/userdata"
STATE_DIR_CONTENT = "${IMAGE_ROOTFS}/../usrdata"
USRDATA_FS_PARTITION = "userdata.fs.ubi"
USRDATA_PARTITION = "userdata.ubi"

mk_userdata_image() {
    mkdir -p ${STATE_DIR_CONTENT}/tmp
    mkdir -p ${STATE_DIR_CONTENT}/etc
    mkdir -p ${STATE_DIR_CONTENT}/var
    mkdir -p ${STATE_DIR_CONTENT}/usr
    mkdir -p ${STATE_DIR_CONTENT}/usr/bin
    cp -af ${IMAGE_ROOTFS}/data/misc ${STATE_DIR_CONTENT}
    cp -a ${IMAGE_ROOTFS}/etc/wpa_supplicant.conf ${STATE_DIR_CONTENT}/etc/wpa_supplicant.conf
    cp -a ${IMAGE_ROOTFS}/usr/bin/adbd ${STATE_DIR_CONTENT}/usr/bin
    cp -a ${IMAGE_ROOTFS}/usr/bin/android-gadget-setup ${STATE_DIR_CONTENT}/usr/bin
    rm -rf ${IMAGE_ROOTFS}/usr/bin/adbd
    rm -rf ${IMAGE_ROOTFS}/usr/bin/android-gadget-setup
    rm -rf ${STATE_DIR_IMAGE_PATH}
```

2. Steps for move files to USRDATA

- a. cp files from \${IMAGE_ROOTFS}/*** to \${STATE_DIR_CONTENT}/***
- b. remove files in \${IMAGE_ROOTFS}/***

3. if USRDATA image size larger than STATE_DIR_IMAGE_SIZE,
modify MTKUBIFS_USRDATA_IMAGE_SZ and MKUBIFS_USRDATA_ARGS
in /meta/meta-mediatek-aud/conf/machine/***.conf

```
--- a/conf/machine/aud8516plv2-consys-slc-test.conf
+++ b/conf/machine/aud8516plv2-consys-slc-test.conf
@@ -120,9 +120,9 @@ SERIAL_CONSOLE = "921600 ttyMT0"
# UBIFS
MTK_UBIFS_SUPPORT="yes"
MKUBIFS_ARGS="-m 2048 -e 126976 -c 1984 -F"
-MKUBIFS_USRDATA_VOL_SZ="119MiB"
+MKUBIFS_USRDATA_VOL_SZ="375MiB"
MKUBIFS_USRDATA_IMAGE_SZ="2048"
-MKUBIFS_USRDATA_ARGS="-m 2048 -e 126976 -c 952 -F"
+MKUBIFS_USRDATA_ARGS="-m 2048 -e 126976 -c 3000 -F"
UBINIZE_ARGS="-m 2048 -p 128KiB -s 2048 -O 2048"
```

“-c” = MKUBIFS_USRDATA_VOL_SZ*1024/128

NOTE: partition size **must be block align**, or else, partition will be treated as **write-protected** partition.