

Face Detection Changes

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Face Detection Changes

Change 1:

Remove rms specific script and service files in rms bbappend file

```
cd meta-cmf-raspberrypi/meta-rdk-camera/recipes-extended/rms/
```

```
vi rms_git.bbappend
```

Disable below lines in rms bbappend file

```
do_install_append() {  
-install -Dm755 ${S}/startRMS.sh ${D}${base_libdir}/rdk/startRMS.sh  
-install -d ${D}${systemd_unitdir}/system  
-install -m 0644 ${S}/rms-launcher.service ${D}${systemd_unitdir}/system/  
+#install -Dm755 ${S}/startRMS.sh ${D}${base_libdir}/rdk/startRMS.sh  
+#install -d ${D}${systemd_unitdir}/system  
+#install -m 0644 ${S}/rms-launcher.service ${D}${systemd_unitdir}/system/  
install -Dm755 ${S}/rms.conf ${D}${prefix}/local/rms/bin/  
}  
-SYSTEMD_SERVICE_${PN}_append = "rms-launcher.service"  
+#SYSTEMD_SERVICE_${PN}_append = "rms-launcher.service"  
-FILES_${PN}_append = "  
-  ${systemd_unitdir}/system/rms-launcher.service \  
-  ${base_libdir}/rdk/startRMS.sh \  
-"  
+#FILES_${PN}_append = "  
+#  ${systemd_unitdir}/system/rms-launcher.service \  
+#  ${base_libdir}/rdk/startRMS.sh \  
+#"
```

Change 2:

Remove cvr specific script and service files in cvr bbappend file

```
cd meta-cmf-raspberrypi/meta-rdk-camera/recipes-multimedia/cvr
```

```
vi cvr_git.bbappend
```

Disable below lines in cvr bbappend file

```
do_install_append() {  
mkdir -p ${D}${prefix}/local/cvr  
-install -Dm755 ${WORKDIR}/startCVR.sh ${D}${base_libdir}/rdk/startCVR.sh
```

```

-install -d ${D}${systemd_unitdir}/system

-install -m 0644 ${WORKDIR}/cvr-launcher.service ${D}${systemd_unitdir}/system/

+##install -Dm755 ${WORKDIR}/startCVR.sh ${D}${base_libdir}/rdk/startCVR.sh
+##install -d ${D}${systemd_unitdir}/system
+##install -m 0644 ${WORKDIR}/cvr-launcher.service ${D}${systemd_unitdir}/system/

install -Dm755 ${WORKDIR}/cvr.conf ${D}${prefix}/local/cvr/

}

-SYSTEMD_SERVICE_${PN}_append = "cvr-launcher.service"
+SYSTEMD_SERVICE_${PN}_append = "cvr-launcher.service"

-FILES_${PN}_append = " \
-   ${systemd_unitdir}/system/cvr-launcher.service \
-   ${base_libdir}/rdk/startCVR.sh \
-"
+FILES_${PN}_append = " \
+   ${systemd_unitdir}/system/cvr-launcher.service \
+   ${base_libdir}/rdk/startCVR.sh \
+#"

inherit systemd

```

Change 3:

Add pw-capture in pipewire-launcher.service file

cd meta-cmf-raspberrypi/meta-rdk-camera/recipes-multimedia/pipewire/files/

vi startPipeWire.sh

Adding pw-capture in startPipeWire.sh file

```

pipewire &

pipewire-media-session &

+

+pw-capture &

```

Change 4:

cd build-raspberrypi3-rdk-camera/tmp/work/cortexa7t2hf-neon-vfpv4-rdk-linux-gnueabi/pipewire/0.3.52-r0/git/src/examples

[pw-capture.cpp](#)

Copy this pw-capture.cpp file to above directory

Change 5:

cd build-raspberrypi3-rdk-camera/tmp/work/cortexa7t2hf-neon-vfpv4-rdk-linux-gnueabi/pipewire/0.3.52-r0/git/src/examples

vi meson.build

Add below lines in end of the file

```

opencv = dependency( 'opencv4' )

```

```

executable('pw-capture',
'pw-capture.cpp',
c_args : [ '-D_GNU_SOURCE' ],
install : true,
dependencies : [pipewire_dep, mathlib, opencv],
)

```

Change 6:

cd meta-cmf-raspberrypi/recipes-core/packagegroups/

vi packagegroup-rdk-oss-camera.bbappend

Add opencv component in Camera build

```

wpa-suplicant \
+      opencv \

```

Change 7:

cd meta-cmf-raspberrypi/recipes-multimedia

[thumbnail.tar.gz](#)

Untar and copy this thumbnail folder to above directory

Change 8:

cd meta-cmf-raspberrypi/recipes-support/opencv

[opencv_4.1.0.bbappend](#)

Copy this opencv bbappend file to above directory

Change 9:

cd meta-cmf-camera/recipes-multimedia/pipewire

vi pipewire_git.bbappend

Add below line in this pipewire bbappend file

```

TARGET_CXXFLAGS += "-fpermissive"

```

Change 10:

cd build-raspberrypi3-rdk-camera/tmp/work/cortexa7t2hf-neon-vfpv4-rdk-linux-gnueabi/pipewire/0.3.52-r0/recipe-sysroot/usr/include/opencv4/opencv2/flann

vi logger.h

Line number : 81

```

int ret;

//int ret = vfprintf(stream, fmt, arglist);

```

Did above two line changes in this logger.h file

Change 11:

cd meta-openembedded/meta-oe/recipes-multimedia/pipewire

vi [pipewire_git.bb](#)

```

-DEPENDS = "alsa-lib dbus udev"

```

```

+DEPENDS = "alsa-lib dbus udev opencv"

```

Added opencv dependency component for PipeWire

Lighttpd Changes

[lighttpd.conf](#)

[light.tar.gz](#)

Need to copy this lighttpd.conf and light.tar.gz files in RPI camera target

lighttpd.conf:

Need to copy this lighttpd.conf file into /etc/lighttpd

light.tar.gz:

copy this into camera target

Local system : scp light.tar.gz root@camera_ip: /

camera target:

```
cd /
```

```
tar -xvzf light.tar.gz
```

While untar this light.tar.gz file the respective files will automatically copy to usr/bin , usr/lib , usr/share directory.

Once did above steps then reboot the target.

Validation

Can view Face detected thumbnail image in browser page

http://camera_ip:50050/detected_face.jpeg