

# RDK-V rdk-next Yocto 3.1 dunfell build for Raspberrypi

## Host Setup

Refer to the link for host setup details: [Host Setup](#)

## Build Setup

### build setup

```
repo init -u https://code.rdkcentral.com/r/manifests -b dunfell -m rdkv.xml
repo sync -j `nproc` --no-clone-bundle --no-tags
```

## Image Build

### Media Client

#### image build

```
RPi3
MACHINE=raspberrypi-rdk-mc source meta-cmf-raspberrypi/setup-environment
bitbake rdk-generic-mediadclient-wpe-image

RPi4
MACHINE=raspberrypi4-64-rdk-android-mc source meta-cmf-raspberrypi/setup-environment
bitbake lib32-rdk-generic-mediadclient-wpe-image
```

### Hybrid Gateway

#### image build

```
RPi3
MACHINE=raspberrypi-rdk-hybrid source meta-cmf-raspberrypi/setup-environment
bitbake rdk-generic-hybrid-wpe-image

RPi4
MACHINE=raspberrypi4-64-rdk-android-hybrid source meta-cmf-raspberrypi/setup-environment
bitbake lib32-rdk-generic-hybrid-wpe-image
```

### Hybrid Gateway with Operator Ref. App.

#### image build

```
MACHINE=raspberrypirdkhybreffapp source meta-cmf-raspberrypi/setup-environment
bitbake rdk-generic-hybrid-refapp-image
```

The generated image resides under the directory `build-<MACHINE>/tmp/deploy/images/<MACHINE>` of the Yocto workspace

## Flash Procedure

The micro SD card should not have any partition while flashing the image. The complete memory of the card should be free

```
# of - output file (the device file for the inserted micro SD card
bzcac <IMAGE_NAME>-<MACHINE>.wic.bz2 | sudo dd of=/dev/sdb bs=4M iflag=fullblock oflag=direct conv=fsync
```

## Known Issue

- Cobalt is crashed upon launching over RDK Shell