

RDK-B_2019Q1

This is the summary page that describes the CMF quarterly release rdkb-2019q1, based on the new branch rdk-next. Below are links to the relevant documents.

Note: The latest rdkb quarterly release addresses licensing issues so users are advised to move to the latest iteration.

- [rdkb-2019q1 Emulator Test Report](#) (Gerrit)
- [rdkb-2019q1 RaspberryPi Test Report](#) (Gerrit)

Note: For the Gerrit links, you need to log in before you will be able to see the contents.

A detailed changelog since the last release [RDK-B_20190206](#) can be found [here](#).

Baseline

Baseline	nightly/20190314	20190314 baseline.
Post-baseline updates		
TDK	M62	https://wiki.rdkcentral.com/display/TK/TK-B+Release+M62
Manifest	rdkb-2019q1	

Highlights

This is the first rdkb quarterly release based on the new rdk-next branch.

- Opensourced components:
 - rdkb/devices/raspberrypi/sysint, rdkb/devices/ci20/hal, rdkb/components/opensource/ccsp/GwProvApp-EthWan, rdkb/components/opensource/ccsp/MeshAgent, rdkb/components/opensource/ccsp/CcspEthAgent, components/opensource/gdbus-client
- Components updated:
 - All components have been updated to incorporate an rdk-next branch.
- Patches:
 - Separate patch files for the open-source OE layers are no longer maintained. Instead, mirrors of the OE layers used by RDK are maintained at CMF, containing rdk branches that contain the patches already applied. The RDK build scripts and recipes now all use these instead of the previous patches.
- Community contributions:
 - A detailed changelog since the last release [RDK-B_20190206](#) can be found [here](#).

Getting the code

Note: The manifests repository is only available to RDK licensees.

```
$ mkdir <workspace dir>
$ cd <workspace dir>
$ repo init -u https://code.rdkcentral.com/r/manifests -m rdkb.xml -b rdkb-2019q1
$ repo sync -j4 --no-clone-bundle
```

- The -m rdkb.xml in the build sequence above is important. If this is not specified, you will get an RDK-V tree by default.
- The -b rdkb-2019q1 in the build sequence above specifies the branch to use.
- If you omit the -b rdkb-2019q1 entirely, you will get the HEAD of each component which may be the latest Master.

Building for the emulator

```
$ source meta-cmf-bsp-emulator/setup-environment (select qemu86broadband-morty)
$ bitbake rdk-generic-broadband-image
```

The image path will be: build-qemu86broadband-morty/tmp/deploy/images/qemu86broadband-morty/rdk-generic-broadband-image-qemu86broadband-morty.vmdk

To build TDK, follow the steps as for a normal build, above, but use the following bitbake command:

```
$ bitbake rdk-generic-broadband-tdk-image
```

The image path will be: build-qemux86broadband-morty/tmp/deploy/images/qemux86broadband-morty/rdk-generic-broadband-tdk-image-qemux86broadband-morty.vmdk

TDK documentation is available here: [release M62](#)

Running the emulator

1. Start VirtualBox.
2. Click New -> Enter name -> Select type Linux -> Select version Other Linux (32 bit) -> Click Next
3. Select Memory size - 512MB -> Click Next
4. Select option Use an existing virtual hard drive -> Select the built image above -> Click Create
5. Once the VM has been created, select the new image and click Settings -> Network -> Select Attached to: 'Bridged Adapter' -> Click Ok
6. Click Start. This will bring up the emulator with the initial splash screen

Building for RaspberryPi

```
$ mkdir <workspace dir>
$ cd <workspace dir>
$ repo init -u https://code.rdkcentral.com/r/manifests -m rdkb.xml -b rdkb-2019q1
$ repo sync -j4 --no-clone-bundle
$ source meta-cmf-raspberrypi/setup-environment
```

Select option raspberrypi-rdk-broadband.conf

```
$ bitbake rdk-generic-broadband-image
```

Note. The kernel Image and root filesystem will be created under the ./tmp/deploy/images/raspberrypi-rdk-broadband folder

Running on the RaspberryPi

Please see [RDK Broadband \(RaspberryPi\)](#)

Documentation for RDK-B on RaspberryPi

[RDK Broadband \(RaspberryPi\)](#)

Sanity Testing

Sanity tests include:

- Services checks (wifiagent, hostapd, ..)
- Network (WAN) connectivity (ssh connection)
- Wifi 2.4Ghz and 5Ghz hotspot testing.
- Login, menu navigation, parameter modification, e.g. Wifi SSID/password change and re-connection, changing admin password.

Known Issues

Known issues are detailed [here](#).