

RDK-B_2018Q1

This is the summary page that describes the CMF release rdkb-2018q1. Below are links to the relevant documents for the release.

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

- [rdkb-2018q1 Emulator Test Report](#) (Gerrit)
- [rdkb-2018q1 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 [rdkb-2017q4](#) can be found [here](#).

Baseline

Baseline	nightly/20180325	20180325 baseline.
Post-baseline updates		
TDK	M56	https://wiki.rdkcentral.com/display/TKD/TKD-B+Release+M56
Manifest	rdkb-2018q1	

Highlights since rdkb-2017q4

This release is equivalent to the rdkb-20180325 iteration.

- Opensourced components:
 - rdk/components/generic/syslog_helper, rdk/components/generic/rdm, rdk/components/generic/xconf-simulator, rdk/components/generic/dcm, rdkb/devices/intel-x86-pc/emulator/tdkb, rdkb/components/generic/CcspLogAgent
- Components updated:
 - breakpad_wrapper, crashupload, rdk_logger, sys_resource, CcspCMAgent, CcspCommonLibrary, CcspHomeSecurity, CcspLMLite, CcspMisc, CcspMoCA, CcspMtaAgent, CcspPandM, CcspPsm, CcspSnmpPa, CcspTr069Pa, CcspWifiAgent, GwProvApp, GwProvApp-ePON, PowerManager, TestAndDiagnostic, Utopia, Xconf, hal, halinterface, hotspot, sysint, webui, rdkb/devices/intel-x86-pc/emulator/tdkb, rdkb/devices/raspberrypi/hal, rdkb/devices/rdkbemu/ccsp/rdkb, rdkb/devices/rdkbemu/rdkbemu_xb3
- 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 - Separate patch files for the open-source OE layers are no longer maintained.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 [rdkb-2017q4](#) can be found [here](#).

Getting the code

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

```
$ mkdir rdkb
$ cd rdkb
$ repo init -u https://code.rdkcentral.com/r/manifests -m rdkb.xml -b rdkb-2018q1
$ 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-2018q1 in the build sequence above specifies the branch to use.
- If you omit the -b rdkb-2018q1 entirely, you will get the master (HEAD) of each component.
- At any time, the community can build latest master by dropping the -b rdkb-2018q1 option in the repo init command.

Building for the emulator

```
$ source meta-cmf-bsp-emulator/setup-environment (select qemux86broadband)
$ bitbake rdk-generic-broadband-image
```

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

TDK documentation is available here: [release M56](#)

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-2018q1-rpi
$ 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 \(RaspberryPi\)](#)

RaspberryPi Sanity Testing

Sanity tests include:

- Wifi 2.4Ghz and 5Ghz hotspot testing.
- Login, menu navigation, parameter modification, e.g. Wifi SSID/password change and re-connection, changing admin password.