

# RDK-B\_20170523

This is the summary page that describes the CMF RDK-B iteration rdkb-20170523.

Below are links to the relevant documents for the release.

- [RDK-B 20170523 Emulator Test Report](#) (Gerrit)
- [RDK-B 20170523 RaspberryPi Test Report](#) (Gerrit)
- A detailed changelog since the last iteration ([RDK-B\\_20170508](#)) can be found [here](#) (Gerrit).

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

*The latest RDK-B release addresses licensing issues so users are advised to move to the latest release.*

## Baseline

Baseline	CMF-20170523	2017-05-23 baseline.
Post-baseline updates		
TDK	M47	<a href="https://wiki.rdkcentral.com//display/TKD/TKD+Release+M47">https://wiki.rdkcentral.com//display/TKD/TKD+Release+M47</a>
Manifest	rdkb-20170523	

## Highlights since 20170508

- New components: rdkb/components/opensource/ccsp/Xconf.
- Components updated:
  - crashupload, rdk\_logger, CcspCommonLibrary, CcspEPONAgent, CcspLMLite, CcspMoCA, CcspPandM, CcspSnmpPa, CcspTr069Pa, CcspWifiAgent, TestAndDiagnostic, Utopia, hal, halinterface, sysint, webui, rdkb/devices/raspberrypi/hal, rdkb, rdkbemu\_xb3.
- Patches updated:
  - patches/rdk-oe
- Community contributions:
  - Please refer to the changelog since the last iteration ([RDK-B\\_20170508](#)) [here](#) (Gerrit).
  - [9484 \(RDKBCMF-73\)](#) Add foreign option to AM\_INIT\_AUTOMAKE in configure.ac
  - [9463 \(RDKBCMF-73\)](#) Add missing files needed by krogth builds
  - [9460 \(RDKBCMF-73\)](#) Restore hal ARM code after hal refactoring
  - [9360 RPI-22: \[WIFI\] Setting the security mode as WPAWPA2-PSK \(TKIP/AES\) is making the WIFI client to connect to the SSID with the Authentication Mode as "WPA-Personal" instead of "WPA2-Personal".](#)

## Getting the code

```
$ mkdir rdkb
$ cd rdkb
$ repo init -u https://code.rdkcentral.com/r/manifests -m rdkb.xml -b rdkb-20170523
$ 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-20170523 in the build sequence above specifies the branch to use. If you omit the -b rdkb-20170523 entirely, you will get the master (HEAD) of each component.
- At any time, the community can build latest master by dropping the -b rdkb-20170523 option in the repo init command.
- We have verified that this iteration boots to a login prompt and that you can log in, and that you can connect with a web browser to the web admin page.

## Building the emulator

```
$ source meta-cmf-rdkb-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 for RDK-B documentation is available: <https://wiki.rdkcentral.com//display/TKD/TKD+Release+M47>

## 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-20170523-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

Documentation for RDK-B for RaspberryPi is available here: <https://rdkwiki.com/rdk/display/DEVTOOLS/RDK+Broadband+%28RaspberryPi%29+-Krogoth>

## Running on the RaspberryPi

Please see [RDK Broadband \(RaspberryPi\) -Krogoth](#).

## Known Issues

- TCL tests not run for RPI or Emulator, TCL scripts and script execution will be resumed once the scripts are stabilized
- Major Regression in RPI Test results, this is being tracked in [RPI-26](#)
- RDKBEMU-436 - PAM Randomly the advance config scripts is causing the PAM process to crash or go to a deadlock state
  - Some of the advanced config scripts are causing the PAM process to deadlock or crash. A reboot is required to recover, this issue caused a regression in a number of tests.
- TDKB-29 - TS\_SNMP\_Get2.4SSIDWithDisabledXfinityWifi is causing the other SNMP scripts to fail. This test case is skipped in Emulator.
- [TDK-341](#) - RDK-B Emulator TS\_PAM\_IplfMaxMTUSize fails on CMF image
  - RDKBEMU-406 raised on emulator
- [TDK-342](#) - RDK-B Emulator SNMP Tests - No Such Instance currently exists at this OID
  - TS\_SNMP\_Get2.4SSIDWithDisabledXfinityWifi tests fails in automated run but passes in manual run under investigation
- [TDK-344](#) - [RDK-B Emulator TS\\_TAD traceroute test failures on CMF image](#)
  - TS\_TAD\_Traceroute test fail in CMF environment due to some security restrictions with test setup
- [TDK-348](#) - TDK-B RPI RDK Logger Tests Failing
- Wifi Emulator test failures under investigation.
- [RPI-26](#) - Latest RPI image is unstable and not listing any of the TR-181 parameters of the CCSP components except LMLite and TR069. Throws "Can't find destination component." error
- [RPI-7](#) - Randomly observing boot up issue in RaspberryPi broadband
- [RPI-21](#) - DNS Client Allows to set value for Device.DNS.Client.Server.1.DNSServer even if the Device.DNS.Client.Server.1.Type is not Static