

RDK-B_20170626

This is the summary page that describes the CMF RDK-B iteration rdkb-20170626.

Below are links to the relevant documents for the release.

- [RDK-B 20170626 Emulator Test Report](#) (Gerrit)
- [RDK-B 20170626 RaspberryPi Test Report](#) (Gerrit)
- A detailed changelog since the last iteration ([RDK-B_20170523](#)) 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-20170626	2017-06-26 baseline.
Post-baseline updates		
TDK	M48	https://wiki.rdkcentral.com//display/TKD/TKD+Release+M48
Manifest	rdkb-20170626	

Highlights since 20170523

- New components: rdkb/components/opensource/ccsp/CcspXDNS, rdkb/components/opensource/ccsp/webpa-broadband.
- Components updated:
 - CcspCommonLibrary, CcspCr, CcspMLite, CcspMisc, CcspMoCA, CcspPandM, CcspPsm, CcspSnmpPa, CcspTr069Pa, CcspWifiAgent, TestAndDiagnostic, Utopia, Xconf, hal, halinterface, sysint, webui, rdkb/devices/raspberrypi/hal, rdkb.
- Patches updated:
 - patches/rdk-oe
- Community contributions:
 - Please refer to the changelog since the last iteration ([RDK-B_20170523](#)) [here](#) (Gerrit).

Getting the code

```
$ mkdir rdkb
$ cd rdkb
$ repo init -u https://code.rdkcentral.com/r/manifests -m rdkb.xml -b rdkb-20170626
$ 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-20170626 in the build sequence above specifies the branch to use. If you omit the -b rdkb-20170626 entirely, you will get the master (HEAD) of each component.
- At any time, the community can build latest master by dropping the -b rdkb-20170626 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 qemu86broadband)
$ bitbake rdk-generic-broadband-image
```

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

TDK for RDK-B documentation is available: <https://wiki.rdkcentral.com//display/TKD/TKD+Release+M48>

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-20170626-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

General:

- TCL tests not run for RPI or Emulator, TCL scripts and script execution will be resumed once the scripts are stabilized
- Some of the TDK advanced config scripts are causing the PAM process to deadlock or crash on the RDKB Emulator
 - Several issues are raised on RDBK Emulator (RDKBEMU-436, RDKBEMU-458, RDKBEMU-477)
- Some TDK TS_TAD emulator tests fail in CMF test setup due to security restrictions with test setup

TDK Issues:

- [TDK-362](#) RDKB EMU TS_WIFIAGENT_EnableAccessPoint kills hostapd.service
 - RDKBEMU-475 raised, setting Device.WiFi.SSID.1.Enable/Device.WiFi.SSID.2.Enable to true kills hostapd, reboot resolves
- [TDK-364](#) RDKB-RPI TDK TS_WIFIAGENT_AccessPointRetryLimit Fail
- [TDK-366](#) RDKB-EMU Setting Device.WiFi.Radio.1.X_CISCO_COM_ApplySetting kills hostapd.service
 - RDKBEMU-481 raised
- [TDK-367](#) RDKB-EMU TS_SNMP_SetSSIDEnable tests kill hostapd service
 - RDKBEMU-483 raised
- [TDK-368](#) RDKB-EMU Intermittent Segfault in CcspWiFiAgent.service
 - observed intermittent segfault when running TS_WIFIAGENT_FactoryReset test on emulator, reboot resolves

RPI Issues:

- [RPI-7](#) Randomly observing boot up issue in RaspberryPi broadband
- [RPI-29](#) SSID Name of WIFI 2.4 and 5GHZ not getting reverted to default SSID Name after doing WIFI factory reset
 - TS_WIFIAGENT_FactoryReset failure
- [RPI-30](#) KeyPassPhrase of WIFI 2.4 and 5GHZ not getting reverted to default password after doing WIFI factory reset
 - TS_WIFIAGENT_5GHZ_PassphraseAfterReset failure