

# RDK-B\_20170830

This is the summary page that describes the CMF RDK-B iteration rdkb-20170830.

Below are links to the relevant documents for the release.

- [RDK-B 20170830 Emulator Test Report](#) (Gerrit)
- [RDK-B 20170830 RaspberryPi Test Report](#) (Gerrit)
- A detailed changelog since the last iteration ([RDK-B-20170803](#)) 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 iteration addresses licensing issues so users are advised to move to the latest iteration.*

## Baseline

Baseline	CMF-20170830	2017-08-30 baseline.
Post-baseline updates		
TDK	M50	<a href="https://wiki.rdkcentral.com/display/TK/TK+Release+M50">https://wiki.rdkcentral.com/display/TK/TK+Release+M50</a>
Manifest	rdkb-20170830	

## Highlights since 20170803

- New components: None.
- Components updated:
  - crashupload, rdk\_logger, CcspCMAgent, CcspCommonLibrary, CcspDmCli, CcspEPONAgent, CcspLMLite, CcspMisc, CcspMoCA, CcspMtaAgent, CcspPandM, CcspPsm, CcspSnmppa, CcspTr069Pa, CcspWifiAgent, GwProvApp, TestAndDiagnostic, Utopia, Xconf, hal, sysint, webpa-broadband, webui, rdkb/devices/rdkbemu/ccsp/rdkb, rdkb/devices/rdkbemu/rdkbemu\_xb3.
- Community contributions:
  - Please refer to the changelog since the last iteration ([RDK-B\\_20170803](#)) [here](#) (Gerrit).

## Getting the code

```
$ mkdir rdkb
$ cd rdkb
$ repo init -u https://code.rdkcentral.com/r/manifests -m rdkb.xml -b rdkb-20170830
$ 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-20170830` in the build sequence above specifies the branch to use. If you omit the `-b rdkb-20170830` entirely, you will get the master (HEAD) of each component.
- At any time, the community can build latest master by dropping the `-b rdkb-20170830` 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 for 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 documentation is available here: <https://wiki.rdkcentral.com/display/TK/TK+Release+M50>

## 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-20170830-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://wiki.rdkcentral.com/display/DEVTOOLS/RDK+Broadband+\(RaspberryPi\)+Krogoth](https://wiki.rdkcentral.com/display/DEVTOOLS/RDK+Broadband+(RaspberryPi)+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
- WiFi HAL tests are being re-worked so are not included in this release

RPI Issues:

- [TDK-404](#) RDK-B RPI : LMLite Test Failures
- [RPI-41](#) lighttpd process is not getting restarted automatically once the process is crashed/killed
- [RPI-43](#) TDK LMLite Device.X\_RDKCENTRAL-COM\_Report.NetworkDevicesStatus.ReportingPeriod not changing to default reporting period after the default OverrideTTL period expired
- [RPI-44](#) TDK LMLite Device.X\_RDKCENTRAL-COM\_Report.NetworkDevicesStatus.PollingPeriod not changing to default polling period after the default OverrideTTL period expired
- [RPI-54](#) TDK LMLite In Connected Device page, Device Type is shown as Ethernet instead of WIFI when client is connected via WIFI
- [RPI-57](#) OperationalDataTransmitRates and SupportedDataTransmitRates of WiFi 2.4 GHz returning empty values
- [RPI-58](#) The OperatingChannelBandwidth parameter of WiFi 2.4GHz returning empty value
- [RPI-61](#) port triggering is not working for RaspberryPi device
- [RPI-63](#) LMLite Connected devices are not displayed on management portal under connected device list
- [RPI-66](#) TDK WIFI Device.WiFi.Radio. .SupportedFrequencyBands is not returning values as per TR-181 spec
- [RPI-67](#) TDK WIFI Device.WiFi.Radio. .OperatingChannelBandwidth is returning empty value

Emulator issues:

- [TDK-368](#) RDKB-EMU Intermittent Segfault in CcspWiFiAgent.service
- [TDK-395](#) RDKB EMU TS\_SNMP\_SetSSIDEnableWithRadioDisabled Fail
- [TDK-396](#) RDKB EMU Reboots During LMLite Tests
- [TDK-405](#) Wifi HAL Tests failing with "NameError: name 'null' is not defined"
- [TDK-408](#) RDKB EMU WiFi Script Timeouts
- [TDK-375](#) RDKB EMU TS\_TAD UDPEcho Test Failures
- RDKBEMU-477 PAM process crashes when setting the port triggering parameters after a port forwarding set operation
- RDKBEMU-498 TDK SSIDs of WiFi 2.4GHz and 5GHZ are retrieved as OutOfService
- RDKBEMU-503 TDK TAD Fails to set the value of Device.DNS.Diagnostics.NSlookupDiagnostics.DiagnosticsState as Requested if the DNSServer value as empty
- RDKBEMU-517 TDK WIFI Not detecting WIFI with Tenda 300Mbps Dual Band Wireless N USB Adapter (W522U: Ralink driver
- RDKBEMU-508 TDK WEBUI Not able to login to the Xfinity page. Throws error as "Can not get password for admin from backend"
- RDKBEMU-534 TDK PAM Randomly emulator crashes when trying to toggle the device between bridge and router mode
- RDKBEMU-533 TDK WIFI The expected value for radiolIndex is different for different api.
- RDKBEMU-521 TDK WIFI Randomly observing WIFI crash while doing WIFI factory reset
- RDKBEMU-458 CcspPandMSSp service/process segfaulting on startup after a crash/reboot during test runs
- RDKBEMU-393 RDKB Emulator When firewall config is set to high, low or medium, the traffic from wlan client to lan client is blocked
- RDKBEMU-380 TDK SNMP Query to get the System Description details is not returning the mandatory fields like HW\_REV,SW\_REV
- RDKBEMU-506 TDK WIFI Reset of WIFI is not happening through snmp
- RDKBEMU-502 Parameters like BytesReceived, PacketsReceived are not getting populated after a successful UDP echo command executed
- RDKBEMU-526 TDK WiFi Radio.2.Enable state automatically changing as True when SSID.2.Enable state is set as true
- RDKBEMU-532 TDK WIFI Segmentation fault observed when enabling/disabling SSID using HAL API wifi\_setSSIDEnable()
- RDKBEMU-536 Create a reference implementation that uses WebPA server

Generic TDK Issues:

- RDKB-13841 TDK TAD Device.IP.Diagnostics.IPPing.DiagnosticsState is not getting changed from "Complete" to "None"
- RDKB-13274 TDK LmLite Polling period not reverting back to default value after OverrideTTLseconds.
- RDKB-12555 TDK LmLite Reporting period not reverting back to default value after OverrideTTLseconds.

- RDKB-12488 TDK Logger RDKB does not support the option to override the debug.ini file location from the standard /etc path as supported in RDK-V
- RDKB-10977 TDK TAD Master Fails to set the value as "Requested" for Device.DNS.Diagnostics.NSlookupDiagnostics.DiagnosticsState
- RDKB-10750 TDK PAM Master Fails to set the value as "Requested" for Device.IP.Diagnostics.DownloadDiagnostics.DiagnosticsState
- RDKB-10573 TDK WIFI Master WiFi agent crashes when trying to set values for MAC Filter table
- RDKB-9915 TDK Port Triggering Master CcspPandMSsp process crashes when trying to enable a rule added for port triggering