

# RDK-B Iteration 20171127 available

RDK-B iteration [rdkb-20171127](#) is now available. Below are links to the relevant documents for the iteration.

- [RDK-B 20171127 Emulator Test Report](#) (Gerrit)
- [RDK-B 20171127 RaspberryPi Test Report](#) (Gerrit)
- [RDK-B 20171127 Emulator License Manifest Report](#)
- [RDK-B 20171127 RaspberryPi License Manifest Report](#)
- A detailed changelog since the last iteration ([rdkb-20171030](#)) 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-20171127	2017-11-27 baseline.
Post-baseline updates		
TDK	M52	<a href="https://wiki.rdkcentral.com/display/TDK/TKD+Release+M52">https://wiki.rdkcentral.com/display/TDK/TKD+Release+M52</a>
Manifest	rdkb-20171127	

## Highlights since 201701030

- Components updated:
  - meta-cmf-rdkb-bsp-emulator, meta-rdk-bsp-emulator, meta-cmf, meta-cmf-broadband, meta-cmf-raspberrypi, meta-rdk, meta-rdk-broadband, devices/intel-x86-pc/rdkbemulator/tdkb, tdk, tdkb.
  - crashupload, rdk\_logger, sys\_resource, CcspCMAgent, CcspCommonLibrary, CcspDmCli, CcspLMLite, CcspMisc, CcspMoCA, CcspPandM, CcspPsm, CcspSnmpPa, CcspTr069Pa, CcspWifiAgent, PowerManager, TestAndDiagnostic, Utopia, Xconf, hal, halinterface, hotspot, sysint, webui, rdkb/devices/raspberrypi/hal, rdkb/devices/rdkbemu/ccsp/rdkb.
- Patches updated:
  - patches/rdk-oe
- Community contributions:
  - Please refer to the changelog since the last iteration ([rdkb-20171030](#)) [here](#) (Gerrit).

## Getting the code

```
$ mkdir rdkb
$ cd rdkb
$ repo init -u https://code.rdkcentral.com/r/manifests -m rdkb.xml -b rdkb-20171127
$ 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-20171127` in the build sequence above specifies the branch to use. If you omit the `-b rdkb-20171127` entirely, you will get the master (HEAD) of each component.
- At any time, the community can build latest master by dropping the `-b rdkb-20171127` 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/TDK/TKD+Release+M52>

## 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-20171127-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

RPI Issues:

- [TDK-433](#) RDKB RPI TS\_PAM\_DeviceUsers\_SetAdminPassword Failure
- [TDK-409](#) RDKB RPI TS\_WIFIHAL\_5GHzGetRadioStandard Failure
- [RPI-41](#) TDK SelfHeal lighttpd process is not getting restarted automatically once the process is crashed/killed
- [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-85](#) TDK WIFI Not able to change the operating standard value of 2.4GHZ
- [RPI-86](#) TDK WIFI Not able to change the operating standard value of 5GHZ
- [RPI-110](#) Verify Restore WiFi Setting on Rpi for Captive Portal
- [RPI-131](#) Cannot get admin password from backend.

Emulator Issues:

- [TDK-368](#) RDKB-EMU Intermittent Segfault in CcspWiFiAgent.service
- [TDK-375](#) RDKB EMU TS\_TAD UDPEcho Test Failures
- [TDK-424](#) RDKB EMU TS\_WIFIHAL Failures
- [TDK-425](#) RDKB EMU failure setting Device.X\_RDKCENTRAL-COM\_Report.NetworkDevicesStatus.ReportingPeriod
- [TDK-432](#) RDKB EMU WIFIHAL GetSSIDStatus Failures
- RDKBEMU-380 TDK SNMP SNMP Query to get the System Description details is not returning the mandatory fields like HW\_REV,SW\_REV
- 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-502 Parameters like BytesReceived, PacketsReceived are not getting populated after a successful UDP echo command executed
- RDKBEMU-508 TDK WEBUI Not able to login to the Xfinity page. Throws error as "Can not get password for admin from backend"
- RDKBEMU-517 TDK WIFI Not detecting WIFI with Tenda 300Mbps Dual Band Wireless N USB Adapter (W522U: Ralink driver
- RDKBEMU-542 TDK WIFI No support for 80MHz OperatingChannelBandwidth in WIFI 5GHZ
- RDKBEMU-543 TDK WIFI Negative Scenario Getting segmentation fault when we pass invalid reference or null pointers to exposed HAL APIs in WIFI
- RDKBEMU-549 TDK WIFI HAL ChannelInUse Value for 5GHZ returned by HAL API wifi\_getRadioChannelsInUse() and TR-181 parameter are different
- RDKBEMU-566 RDKB Emulator for Developers builds are failing while configuring nfs-utils

Generic TDK Issues:

- RDKB-9915 TDK Port Triggering Master CcspPandMSSp process crashes when trying to enable a rule added for port triggering
- RDKB-10573 TDK WIFI Master WiFi agent crashes when trying to set values for MAC Filter table
- RDKB-10750 TDK PAM Master Fails to set the value as "Requested" for Device.IP.Diagnostics.DownloadDiagnostics.DiagnosticsState
- RDKB-10977 TDK TAD Master Fails to set the value as "Requested" for Device.DNS.Diagnostics.NSlookupDiagnostics.DiagnosticsState
- 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-14126 TDK Getting invalid parameter error on setting parameter values for a new PortMapping rule