

RDK-B_2017Q3

This is the summary page that describes the CMF RDK-B release rdkb-2017q3.

Below are links to the relevant documents for the release.

- [RDK-B 2017q3 Emulator Test Report](#) (Gerrit)
- [RDK-B 2017q3 RaspberryPi Test Report](#) (Gerrit)
- A detailed changelog since the last iteration ([RDK-B_2017Q2](#)) 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-20170929	2017-09-29 baseline.
Post-baseline updates	webui cc93f1d	
TDK	M51	https://wiki.rdkcentral.com//display/TK/TK+Release+M51
Manifest	rdkb-2017q3	

Highlights since 2017q2

- Components updated:
 - crashupload, rdk_logger, CcspCMAgent, CcspCommonLibrary, CcspCr, CcspDmCli, CcspEPONAgent, CcspHomeSecurity, CcspLMLite, CcspMisc, CcspMoCA, CcspMtaAgent, CcspPandM, CcspPsm, CcspSnmpPa, CcspTr069Pa, CcspWifiAgent, CcspXDNS, GwProvApp, GwProvApp-ePON, TestAndDiagnostic, Utopia, Xconf, hal, halinterface, hotspot, sysint, webpa-broadband, webui, rdkb/devices/raspberrypi/hal, rdkb/devices/rdkbemu/ccsp/rdkb, rdkb/devices/rdkbemu/rdkbemu_xb3, rdkcmf/meta-westeros-raspberrypi.
- Patches updated:
 - patches/rdk-oe
- Community contributions:
 - Please refer to the changelog since the last quarterly release ([RDK-B_2017Q2](#)) [here](#) (Gerrit).

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-2017q3
$ 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-2017q3` in the build sequence above specifies the branch to use. If you omit the `-b rdkb-2017q3` entirely, you will get the master (HEAD) of each component.
- At any time, the community can build latest master by dropping the `-b rdkb-2017q3` 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/TK/TK+Release+M51>

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-2017q3-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:

- For emulator increased the execution time in some LMLite and WiFi Tests ([TDK-396/408](#))
- On emulator: RDKBEMU-539 intermittently CcspCr.service & CcspPsm.service and other critical ccsp services may fail due to a tmp-ccsp_msg.cfg.service failure, if it occurs emulator will need a reboot to recover

RPI Issues:

- [TDK-404](#) RDK-B RPI : LMLite Test Failures
- [TDK-409](#) RDKB RPI WiFiHAL Failures
- [RPI-41](#) lighttpd process is not getting restarted automatically once the process is crashed/killed
- [RPI-54](#) TDK LMLite In Connected Device page, Device Type is shown as Ethernet instead of WIFI when client is connected via WIFI
- [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-73](#) RPI RDKB Krogoth NIGHTLY Unable to connect to portal
 - **This issue is worked around in this release**
- [RPI-78](#) WiFi HAL api wifi_getRadioOperatingChannelBandwidth() is returning invalid channel bandwidth value for 2.4GHz
- [RPI-79](#) WiFi HAL api wifi_getRadioOperatingChannelBandwidth() is returning invalid channel bandwidth value for 5GHz
- [RPI-80](#) WiFi HAL api wifi_getRadioSupportedFrequencyBands() returning invalid value for 2.4GHz
- [RPI-81](#) WiFi HAL api wifi_getRadioOperatingFrequencyBand() returning invalid value for 2.4GHz
- [RPI-82](#) WiFi HAL api wifi_getRadioOperatingFrequencyBand() returning invalid value for 5GHz
- [RPI-83](#) WiFi HAL api wifi_getRadioSupportedFrequencyBands() returning invalid value for 5GHz
- [RPI-84](#) TDK WIFI 2.4 and 5GHZ WIFI SSIDs stops broadcasting once the channel number of 5GHZ is set to 40
- [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-88](#) TDK WIFI Set operation on Operating ChannelBW is failing after ApplySetting

Emulator Issues:

- [TDK-368](#) RDKB-EMU Intermittent Segfault in CcspWiFiAgent.service
- [TDK-375](#) RDKB EMU TS_TAD UDPEcho Test Failures
- [TDK-395](#) RDKB EMU TS_SNMP_SetSSIDEnableWithRadioDisabled Fail
- [TDK-396](#) RDKB EMU Reboots During LMLite Tests
- [TDK-408](#) RDKB EMU WiFi Script Timeouts
- 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-458 CcspPandMSSp service/process segfaulting on startup after a crash/reboot during test runs
- 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-502 Parameters like BytesReceived, PacketsReceived are not getting populated after a successful UDP echo command executed
- RDKBEMU-503 TDK TAD Fails to set the value of Device.DNS.Diagnostics.NSLookupDiagnostics.DiagnosticsState as Requested if the DNSServer value as empty
- RDKBEMU-506 TDK WIFI Reset of WIFI is not happening through snmp
- 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-521 TDK WIFI Randomly observing WIFI crash while doing WIFI factory reset
- 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-533 TDK WIFI The expected value for radiolIndex is different for different api.
- RDKBEMU-534 TDK PAM Randomly emulator crashes when trying to toggle the device between bridge and router mode
- RDKBEMU-536 Create a reference implementation that uses WebPA server
- RDKBEMU-539 PSM Segfault on Boot/Reboot
- RDKBEMU-540 TDK WIFI Device.WiFi.Radio.ChannelsInUse is not listing the current radio channel number.
- RDKBEMU-541 TDK WIFI Unable to set the operating standard as "ac" for 5GHZ
- RDKBEMU-542 TDK WIFI No support for 80MHz OperatingChannelBandwidth in WIFI 5GHZ

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-12555 TDK LmLite Reporting period not reverting back to default value after OverrideTTLseconds.
- RDKB-13274 TDK LmLite Polling period not reverting back to default value after OverrideTTLseconds.
- RDKB-14126 TDK Getting invalid parameter error on setting parameter values for a new PortMapping rule