

RDK-B_2017Q4

This is the summary page that describes the CMF RDK-B release rdkb-2017q4.

Below are links to the relevant documents for the release.

- [RDK-B 2017q4 Emulator Test Report](#) (Gerrit)
- [RDK-B 2017q4 RaspberryPi Test Report](#) (Gerrit)
- A detailed changelog since the last iteration ([RDK-B-2017q3](#)) 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	nightly/20171228	2017-12-28 baseline.
Post-baseline updates		
TDK	M53	https://wiki.rdkcentral.com/display/TDK/TDK+Release+M53
Manifest	rdkb-2017q4	

Highlights since 2017q3

- This release is equivalent to the rdkb-20171228 iteration.
- Components updated:
 - crashupload, rdk_logger, sys_resource, CcspCMAgent, CcspCommonLibrary, CcspDmCli, CcspHomeSecurity, CcspLMLite, CcspMisc, CcspMoCA, CcspPandM, CcspPsm, CcspSnmppa, CcspTr069Pa, CcspWifiAgent, GwProvApp, GwProvApp-ePON, PowerManager, TestAndDiagnostic, Utopia, Xconf, hal, halinterface, hotspot, sysint, webui, sysint, rdkb/devices/raspberrypi/hal, rdkb/devices/rdkbemu/ccsp/rdkb.
- Patches:
 - Separate patch files for the open-source OE layers are no longer maintained. Instead, from this release, mirrors of the OE layers used by RDK are maintained at CMF, containing rdk branches that contain the patches already applied. The RDK build scripts and recipes now all use these instead of the previous patches.
- Community contributions:
 - Please refer to the changelog since the last release ([RDK-B_2017q3](#)) [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-2017q4
$ 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-2017q4 in the build sequence above specifies the branch to use. If you omit the -b rdkb-2017q4 entirely, you will get the master (HEAD) of each component.
- At any time, the community can build latest master by dropping the -b rdkb-2017q4 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-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 documentation is available here: <https://wiki.rdkcentral.com/display/TDK/TDK+Release+M53>

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-2017q4-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

TDK M53 or later must be used to test this release as prior versions of TDK Manager are not compatible with the TDK Agent in this release due to a recent change in the TDK JSON RPC version

RPI Issues:

- [TDK-409](#) RDKB RPI TS_WIFIHAL_5GHzGetRadioStandard Failure
- [TDK-434](#) RDKB RPI WIFIAGENT 2.4 and 5 IsSSIDDown Failures
- [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-131](#) Cannot get admin password from backend.
- [RPI-138](#) RDKB WiFi Get Extension channel not returning desired outputs
- [RPI-146](#) TDK WIFI HAL wifi_getRadioExtChannel returns an empty string for 2.4Ghz
- [RPI-147](#) WiFi HAL api wifi_getRadioSupportedFrequencyBands() returning a null string
- [RPI-148](#) TAD LMLite Device.Hosts.HostNumberOfEntries is not zero in Bridge mode
- [RPI-149](#) TDK WIFIHAL mismatch between the values returned by wifi_getRadioStandard() and wifi_getRadioSupportedStandards() for radioIndex 0
- [RPI-150](#) TDK WIFI AutoChannelEnable is not disabling when radio channel is changed for 5GHz
- [RPI-151](#) TDK WIFI AutoChannelEnable is not disabling when radio channel is changed for 2.4GHz

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
- [TDK-444](#) RDKB EMU TS_SNMP_SetSSIDEnableWithRadioDisabled Failure
- [TDK-445](#) RDKB EMU TS_SNMP_Get2.4SSIDWithDisabledXfinityWifi Failure
- RDKBEMU-380 TDK SNMP SNMP Query to get the System Description details is not returning the mandatory fields like HW_REV,SW_REV
- RDKBEMU-502 Parameters like BytesReceived, PacketsReceived are not getting populated after a successful UDP echo command executed
- RDKBEMU-569 TDK WIFI HAL wifi_getRadioExtChannel returns an empty string for 2.4Ghz
- RDKBEMU-570 TDK WIFI HAL Enabling or disabling wifi radio and ssid through hal api is not reflecting in emulator
- RDKBEMU-582 WIFI wlan0_0 missing following integration of NetworkManager
 - note network manager reverted from this release due to this issue
- RDKBEMU-585 TDK [Device.UserInterface.X_CISCO_COM_RemoteAccess.Enable shows a different value when queried with Device.UserInterface.X_CISCO_COM_RemoteAccess
- RDKBEMU-586 TDK UserInterface Device.UserInterface.X_CISCO_COM_RemoteAccess.FromAnyIP shows a different value when queried with Device.UserInterface.X_CISCO_COM_RemoteAccess
- RDKBEMU-589 TDK WIFI HALwifi_getRadioMaxBitRate returns NULL for 2.4GHz and 5GHz
- RDKBEMU-594 TDK WiFi Set operation with HAL api wifi_setApEnable() is failing for 2.4GHz
- RDKBEMU-595 TDK WiFi Set operation with HAL api wifi_setApEnable() is failing for 5GHz
- RDKBEMU-596 TDK WiFi The HAL api wifi_getBaseBSSID() is returning junk value for 2.4GHz

- RDKBEMU-597 TDK WiFi HAL api `wifi_getRadioIfName()` not returning expected value for 2.4GHz
- RDKBEMU-598 TDK WiFi HAL api `wifi_getRadioIfName()` not returning expected value for 5GHz

Generic TDK Issues:

- RDKB-9915 TDK Port Triggering Master CcspPandMSsp process crashes when trying to enable a rule added for port triggering
- RDKB-10750 TDK PAM Master Fails to set the value as "Requested" for `Device.IP.Diagnostics.DownloadDiagnostics.DiagnosticsState`
- RDKB-14126 TDK Getting invalid parameter error on setting parameter values for a new PortMapping rule