

RDK-B_20171030

This is the summary page that describes the CMF RDK-B iteration rdkb-20171030.

Below are links to the relevant documents for the release.

- [RDK-B 20171030 Emulator Test Report](#) (Gerrit)
- [RDK-B 20171030 RaspberryPi Test Report](#) (Gerrit)
- A detailed changelog since the last iteration ([RDK-B-20170929](#)) 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-20171030	2017-10-30 baseline.
Post-baseline updates		
TDK	M52	https://wiki.rdkcentral.com/display/TK/TK+Release+M52
Manifest	rdkb-20171030	

Highlights since 20170929

- Components updated:
 - crashupload, rdk_logger, CcspCMAgent, CcspCommonLibrary, CcspHomeSecurity, CcspLMLite, CcspMisc, CcspMoCA, CcspPandM, CcspPsm, CcspSnmpPa, CcspTr069Pa, CcspWeebController, CcspWifiAgent, GwProvApp, GwProvApp-ePON, PowerManager, TestAndDiagnostic, Utopia, Xconf, hal, halinterface, hotspot, sysint, webui, rdkb/devices/raspberrypi/hal, rdkb/devices/rdkbemu/ccsp/rdkb, meta-westeros-raspberrypi.
- Community contributions:
 - Please refer to the changelog since the last iteration ([RDK-B-20170929](#)) [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-20171030
$ 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-20171030` in the build sequence above specifies the branch to use. If you omit the `-b rdkb-20171030` entirely, you will get the master (HEAD) of each component.
- At any time, the community can build latest master by dropping the `-b rdkb-20171030` 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 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/TK/TK+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-20171030-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-409](#) RDKB RPI WiFIHAL 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-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-110](#) Verify Restore WiFi Setting on Rpi for Captive Portal
- [RPI-116](#) WiFi HAL api `wifi_getRadioNumberOfEntries` gives segmentation fault on passing invalid reference or null pointers to exposed HAL APIs
- [RPI-117](#) WiFi HAL api `wifi_getRadioOperatingChannelBandwidth()` is returning invalid channel bandwidth value for 2.4 and 5GHZ
- [RPI-119](#) Cannot set the OperatingChannelBandwidth of WiFi.Radio.1 as 40MHz
- [RPI-120](#) TDK WIFI 5GHz Radio status changes to "Down" when 2.4GHz Radio is disabled
- [RPI-121](#) TDK WIFI 5GHz Radio status is "Up" after disabling Device.WiFi.Radio.2.Enable

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`
- RDKBEMU-380 TDK 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-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-521 TDK WIFI Randomly observing WIFI crash while doing WIFI factory reset
- 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

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
- RDKB-14486 TDK TR-181 Details of TR-181 supported data model are displayed with dummy values.