RDK-B_20170803

This is the summary page that describes the CMF RDK-B iteration rdkb-20170803.

Below are links to the relevant documents for the release.

- RDK-B 20170803 Emulator Test Report (Gerrit)
- RDK-B 20170803 RaspberryPi Test Report (Gerrit)
- A detailed changelog since the last iteration (RDK-B_20170626) 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-20170803	2017-08-03 baseline.
Post-baseline updates		
TDK	M50	https://wiki.rdkcentral.com//display/TDK/TDK+Release+M50
Manifest	rdkb-20170803	

Highlights since 20170626

- New components: None.
- Components updated:
  - crashupload, rdk_logger, CcspCMAgent, CcspCommonLibrary, CcspLMLite, CcspMisc, CcspMoCA, CcspPandM, CcspPsm, CcspSnmpPa, CcspTr069Pa, CcspWifiAgent, CcspXDNS, GwProvApp, GwProvApp-ePON, TestAndDiagnostic, Utopia, Xconf, hal, halinterface, hotspot, sysint, webui, rdkb/devices/raspberrypi/hal, rdkb/devices/rdkbemu/ccsp/rdkb, rdkbemu_xb3.
- Patches updated:
  - patches/rdk-oe
- Community contributions:
  - Please refer to the changelog since the last iteration (RDK-B_20170626) here (Gerrit).

Getting the code

```
$ mkdir rdkb
$ cd rdkb
$ repo init -u https://code.rdkcentral.com/r/manifests -m rdkb.xml -b rdkb-20170803
$ 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-20170803` in the build sequence above specifies the branch to use. If you omit the `-b rdkb-20170803` entirely, you will get the master (HEAD) of each component.
- At any time, the community can build latest master by dropping the `-b rdkb-20170803` 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/TDK/TDK+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-20170803-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:

- TCL tests not run for RPI or Emulator, TCL scripts and script execution will be resumed once the scripts are stabilized

RPI Issues:

- RPI-41 lighttpd process is not getting restarted automatically once the process is crashed/killed
- RPI-54 In Connected Device page, Device Type is shown as Ethernet instead of WIFI when client is connected via WIFI
- RPI-55 Management portal fails to load
- 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

Emulator TDK issues:

- TDK-396 RDKB EMU Reboots During LMLite Tests
- TDK-368 RDKB-EMU Intermittent Segfault in CcspWiFiAgent.service
  - observed intermittent segfault when running TS_WIFIAGENT_FactoryReset test on emulator, reboot resolves
- TDK-395 RDKB EMU TS_SNMP_SetSSIDEnableWithRadioDisabled Fail
- TDK-377 RDKB EMU TS_WIFIAGENT_5GHZ_AutoChannelEnable segfault in CcspWifiAgent service
- TDK-372 RDKB EMU CMF RDK Logger Test Failures
- TDK-375 RDKB EMU TS_TAD UDPEcho Test Failures
- SSIDs of WiFi 2.4GHz and 5GHZ are retrieved as OutOfService (RDKBEMU-498)
- Device.WiFi.AccessPoint AssociatedDeviceNumberOfEntries is not getting incremented when WIFI client is connected to the 2.4/5ghz SSID (RDKBEMU-509)
- Set/Get of 2.4/5GHZ WIFI parameters works via dmcli/webui even without the WIFI dongle connected (RDKBEMU-484)
- WIFI crashes after setting Device.WiFi.Radio.2.AutoChannelEnable as true and apply settings (RDKBEMU-510)
- Device.Hosts.X_CISCO_COM_ConnectedDeviceNumber is not zero in Bridge mode (RDKBEMU_504)
- LeaseTimeRemaining is not getting updated properly (RDKBEMU-505)
- Unable to connected to changed wifi 5G ssid (RDKBEMU-500)
  - After changing SSID on emulator 5Ghz need to reboot for it to take effect
- Not able to login to the Xfinity page. Throws error as "Can not get password for admin from backend" (RDKBEMU-508)
- Parameters like BytesReceived, PacketsReceived are not getting populated after a successful UDP echo command executed (RDKBEMU-502)
- Device.IP.Diagnostics.TraceRoute.ResponseTime not getting updated after a successful trace route (RDKBEMU-501)
- Reset of WIFI is not happening through snmp (RDKBEMU-506)
- Trying to edit the port triggering rule added throws error as "CCSP_ERR_INVALID_PARAMETER_VALUE" (RDKBEMU-507)
- SNMP Query to get the System Description details is not returning the mandatory fields like HW_REV,SW_REV (RDKEMU-380)
- Fails to set the value of Device.DNS.Diagnostics.NSLookupDiagnostics.DiagnosticsState as Requested if the DNSServer value as empty (RDKBEMU-503)

Generic TDK Issues:

- TDK-394 RDKB Wifi SSID test scripts missing time import
- Polling period not reverting back to default value after OverrideTTLseconds.(RDKB-12374)
- Reporting period not reverting back to default value after OverrideTTLseconds. (RDKB-12555)
- ApplySetting operation for enabling auto channel mode of WIFi 2.4GHz is going for timeout (RDKB-13184)
- ApplySetting operation for enabling auto channel mode of WIFi 5GHz is going for timeout (RDKB-13169)