RDK-B_20170626

This is the summary page that describes the CMF RDK-B iteration rdkb-20170626.

Below are links to the relevant documents for the release.

- RDK-B 20170626 Emulator Test Report (Gerrit)
- RDK-B 20170626 RaspberryPi Test Report (Gerrit)
- A detailed changelog since the last iteration (RDK-B_20170523) 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-20170626	2017-06-26 baseline.
Post-baseline updates		
TDK	M48	https://wiki.rdkcentral.com//display/TDK/TDK+Release+M48
Manifest	rdkb-20170626	

Highlights since 20170523

- New components: rdkb/components/opensource/ccsp/CcspXDNS, rdkb/components/opensource/ccsp/webpa-broadband.
- Components updated:
  - CcspCommonLibrary, CcspCr, CcspLMLite, CcspMisc, CcspMoCA, CcspPandM, CcspPsm, CcspSnmpPa, CcspTr069Pa, CcspWifiAgent, TestAndDiagnostic, Utopia, Xconf, hal, halinterface, sysint, webui, rdkb/devices/raspberrypi/hal, rdkb.
- Patches updated:
  - patches/rdk-oe
- Community contributions:
  - Please refer to the changelog since the last iteration (RDK-B_20170523) here (Gerrit).

Getting the code

```
$ mkdir rdkb
$ cd rdkb
$ repo init -u https://code.rdkcentral.com/r/manifests -m rdkb.xml -b rdkb-20170626
$ 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-20170626` in the build sequence above specifies the branch to use. If you omit the `-b rdkb-20170626` entirely, you will get the master (HEAD) of each component.
- At any time, the community can build latest master by dropping the `-b rdkb-20170626` 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+M48

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-20170626-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
- Some of the TDK advanced config scripts are causing the PAM process to deadlock or crash on the RDKB Emulator
    - Several issues are raised on RDBK Emulator (RDKBEMU-436, RDKBEMU-458, RDKBEMU-477)
- Some TDK TS_TAD emulator tests fail in CMF test setup due to security restrictions with test setup

TDK Issues:

- TDK-362 RDKB EMU TS_WIFIAGENT_EnableAccessPoint kills hostapd.service
    - RDKBEMU-475 raised, setting Device.WiFi.SSID.1.Enable/Device.WiFi.SSID.2.Enable to true kills hostapd, reboot resolves
- ~~TDK-364~~ RDKB-RPI TDK TS_WIFIAGENT_AccessPointRetryLimit Fail
- TDK-366 RDKB-EMU Setting Device.WiFi.Radio.1.X_CISCO_COM_ApplySetting kills hostapd.service
    - RDKBEMU-481 raised
- TDK-367 RDKB-EMU TS_SNMP_SetSSIDEnable tests kill hostapd service
    - RDKBEMU-483 raised
- TDK-368 RDKB-EMU Intermittent Segfault in CcspWiFiAgent.service
    - observed intermittent segfault when running TS_WIFIAGENT_FactoryReset test on emulator, reboot resolves

RPI Issues:

- RPI-7 Randomly observing boot up issue in RaspberryPI broadband
- RPI-29 SSID Name of WIFI 2.4 and 5GHZ not getting reverted to default SSID Name after doing WIFI factory reset
    - TS_WIFIAGENT_FactoryReset failure
- RPI-30 KeyPassPhrase of WIFI 2.4 and 5GHZ not getting reverted to default password after doing WIFI factory reset
    - TS_WIFIAGENT_5GHZ_PassphraseAfterReset failure