RDK-B_20170213

This is the summary page that describes the CMF RDK-B iteration rdkb-20170213.

Below are links to the relevant documents for the release.

- RDK-B 20170213 Emulator Report (Gerrit)
- A detailed changelog since the last iteration (RDK-B_20170130) 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-20170213	2017-02-13 baseline.
Post-baseline updates		
TDK	M44	https://rdkwiki.com/rdk/display/TDK/TDK+Release+M44
Manifest	rdkb-20170213	

Highlights since 20170130

- New components: None.
- Components updated:
  - CcspCommonLibrary, CcspLMLite, CcspMisc, CcspMoCA, CcspPandM, CcspPsm, CcspTr069Pa, CcspWifiAgent, TestAndDiagnostic, Utopia, hal, halinterface, hotspot, sysint, webui, rdkb/devices/raspberrypi/hal, rdkb/devices/rdkbemu/ccsp/rdkb.
- Patches updated: None.
- Community contributions:
  - 7841 RDKCOM-33 Add support for RDKB RaspberryPi Platform
  - 6642 (RDKCMF-5303) Add ccsp_common to LDFLAGS, in order to support breakpad
  - 6671 RDKCOM-41 Fix a compilation issue
  - 6639 RDKCOM-37 Fix initialization from incompatible pointer type error
  - 7519 (RDKBCMF-40) Wifi Hal changes for Channel and Encryption mode
  - 7516 (RDKBCMF-39) Country code is not getting set at boot time for 5Gz in case of dual band on RaspberryPi Platform.

Getting the code

```
$ mkdir rdkb
$ cd rdkb
$ repo init -u https://code.rdkcentral.com/r/manifests -m rdkb.xml -b rdkb-20170213
$ 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-20170213` in the build sequence above specifies the branch to use. If you omit the `-b rdkb-20170213` entirely, you will get the master (HEAD) of each component.
- At any time, the community can build latest master by dropping the `-b rdkb-20170213` 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 code

```
$ 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`

Building 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://rdkwiki.com/rdk/display/TDK/TDK+Release+M44

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

Known Issues

- TDK-312 RDK-B TCL test retrieves wrong IP
- TDK-313 RDK-B PAM tests fail after CcspPandMSsp process dies
- TDK-324 RDK-B CCSPCOMMON_MBUS Emulator Tests Failing on TDKB.cfg Load Error