RDK-B_20170523

This is the summary page that describes the CMF RDK-B iteration rdkb-20170523.

Below are links to the relevant documents for the release.

- RDK-B 20170523 Emulator Test Report (Gerrit)
- RDK-B 20170523 RaspberryPi Test Report (Gerrit)
- A detailed changelog since the last iteration (RDK-B_20170508) 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-20170523	2017-05-23 baseline.
Post-baseline updates		
TDK	M47	https://wiki.rdkcentral.com//display/TDK/TDK+Release+M47
Manifest	rdkb-20170523	

Highlights since 20170508

- New components: rdkb/components/opensource/ccsp/Xconf.
- Components updated:
  - crashupload, rdk_logger, CcspCommonLibrary, CcspEPONAgent, CcspLMLite, CcspMoCA, CcspPandM, CcspSnmpPa, CcspTr069Pa, CcspWifiAgent, TestAndDiagnostic, Utopia, hal, halinterface, sysint, webui, rdkb/devices/raspberrypi/hal, rdkb, rdkbemu_xb3.
- Patches updated:
  - patches/rdk-oe
- Community contributions:
  - Please refer to the changelog since the last iteration (RDK-B_20170508) here (Gerrit).
  - 9484 (RDKBCMF-73) Add foreign option to AM_INIT_AUTOMAKE in configure.ac
  - 9463 (RDKBCMF-73) Add missing files needed by krogoth builds
  - 9460 (RDKBCMF-73) Restore hal ARM code after hal refactoring
  - 9360 RPI-22: [WIFI] Setting the security mode as WPAWPA2-PSK (TKIP/AES) is making the WIFI client to connect to the SSID with the Authentication Mode as "WPA-Personal" instead of "WPA2-Personal".

Getting the code

```
$ mkdir rdkb
$ cd rdkb
$ repo init -u https://code.rdkcentral.com/r/manifests -m rdkb.xml -b rdkb-20170523
$ 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-20170523` in the build sequence above specifies the branch to use. If you omit the `-b rdkb-20170523` entirely, you will get the master (HEAD) of each component.
- At any time, the community can build latest master by dropping the `-b rdkb-20170523` 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+M47

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-20170523-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

- TCL tests not run for RPI or Emulator, TCL scripts and script execution will be resumed once the scripts are stabilized
- Major Regression in RPI Test results, this is being tracked in RPI-26
- RDKBEMU-436 - PAM Randomly the advance config scripts is causing the PAM process to crash or go to a deadlock state
  - Some of the advanced config scripts are causing the PAM process to deadlock or crash. A reboot is required to recover, this issue caused a regression in a number of tests.
- TDKB-29 - TS_SNMP_Get2.4SSIDWithDisabledXfinityWifi is causing the other SNMP scripts to fail. This test case is skipped in Emulator.
- TDK-341 - RDK-B Emulator TS_PAM_IpIfMaxMTUSize fails on CMF image
  - RDKBEMU-406 raised on emulator
- TDK-342 - RDK-B Emulator SNMP Tests - No Such Instance currently exists at this OID
  - TS_SNMP_Get2.4SSIDWithDisabledXfinityWifi tests fails in automated run but passes in manual run under investigation
- TDK-344 - RDK-B Emulator TS_TAD traceroute test failures on CMF image
  - TS_TAD_Traceroute test fail in CMF evironement due to some security restrictions with test setup
- TDK-348 - TDK-B RPI RDK Logger Tests Failiing
- Wifi Emulator test failures under investigation.
- RPI-26 -Latest RPI image is unstable and not listing any of the TR-181 parameters of the CCSP components except LMlite and TR069. Throws "Can't find destination component." error
- RPI-7 - Randomly observing boot up issue in RaspberryPI broadband
- RPI-21 - DNS Client Allows to set value for Device.DNS.Client.Server.1.DNSServer even if the Device.DNS.Client.Server.1.Type is not Static