RDK-B_2020Q2

This is the summary page that describes CMF quarterly release rdkb-2020q2, based on the new branch rdk-next. Below are links to the relevant documents.

Note: The master branch has been deprecated in select community repositories and rdk-next is now the lead development branch.

Note: The latest rdkb quarterly release addresses licensing issues so users are advised to move to the latest iteration.

- rdkb-2020q2 Emulator Test Report (Gerrit)
- rdkb-2020q2 RaspberryPi Test Report (Gerrit)

Note: For the Gerrit links, you need to log in before you will be able to see the contents.

A detailed changelog since the last release rdkb-2020q1 can be found here.

Baseline

Baseline	nightly/20200606	20200606 baseline.
Post-baseline updates		
TDK	M76	https://wiki.rdkcentral.com/display/TDK/TDK-B+Release+M76
Manifest	rdkb-2020q2	

Highlights

- Components updated:
    - breakpad_wrapper, crashupload, dca, dcm, libSyscallWrapper, rdk_logger, rdm, rfc, sys_resource, syslog_helper, xconf-simulator, xupnp, rdkb/components/generic/CcspLogAgent, rdkb/components/generic/harvester, rdkb/components/generic/notify_comp, CcspCMAgent, CcspCommonLibrary, CcspCr, CcspDmCli, CcspEPONAgent, CcspEthAgent, CcspHomeSecurity, CcspLMLite, CcspMisc, CcspMoCA, CcspMtaAgent, CcspPandM, CcspPsm, CcspSnmpPa, CcspTr069Pa, CcspWifiAgent, CcspXDNS, FirmwareSanity, GwProvApp, GwProvApp-EthWan, GwProvApp-ePON, MeshAgent, PowerManager, TestAndDiagnostic, Utopia, Xconf, hal, halinterface, hotspot, sysint, webui, rdkb/devices/intel-x86-pc/emulator/sysint, rdkb/devices/intel-x86-pc/emulator/tdkb, rdkb/devices/raspberrypi/hal, rdkb/devices/raspberrypi/sysint, rdkb/devices/rdkbemu/ccsp/rdkb, rdkb/devices/rdkbemu/rdkbemu_xb3
- Patches:
    - Separate patch files for the open-source OE layers are no longer maintained. Instead, mirrors of the OE layers used by RDK are maintained at CMF, containing rdk branches that contain the patches already applied. The RDK build scripts and recipes now all use these instead of the previous patches.
- Community contributions:
    - A detailed changelog since the last release rdkb-2020q1 can be found here.

Getting the code

Note: The manifests repository is only available to RDK licensees.

```
$ mkdir <workspace dir>
$ cd <workspace dir>
$ repo init -u https://code.rdkcentral.com/r/manifests -m rdkb.xml -b rdkb-2020q2
$ 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-2020q2 in the build sequence above specifies the branch to use.
- If you omit the -b rdkb-2020q2 entirely, you will get the HEAD of each component which may be the latest Master.

Building for the emulator

```
$ source meta-cmf-bsp-emulator/setup-environment (select qemux86broadband-morty)
$ bitbake rdk-generic-broadband-image
```

The image path will be: build-qemux86broadband-morty/tmp/deploy/images/qemux86broadband-morty/rdk-generic-broadband-image-qemux86broadband-morty.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-morty/tmp/deploy/images/qemux86broadband-morty/rdk-generic-broadband-tdk-image-qemux86broadband-morty.vmdk

TDK documentation is available here: release M76

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-2020q2
$ 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

Running on the RaspberryPi

Please see RDK Broadband (RaspberryPi)

Documentation for RDK-B on RaspberryPi

RDK Broadband (RaspberryPi)

Sanity Testing

Sanity tests include:

- Services checks (wifiagent, hostapd, ..)
- Network (WAN) connectivity (ssh connection)
- Wifi 2.4Ghz and 5Ghz hotspot testing.
- Login, menu navigation, parameter modification, e.g. Wifi SSID/password change and re-connection, changing admin password.

Known Issues

Known issues are detailed here.