RDK-B_20190206

This is the summary page that describes the CMF iteration rdkb-20190206. This iteration is based on the new branch rdk-next. Below are links to the relevant documents for the iteration.

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

- rdkb-20190206 Emulator Test Report (Gerrit)
- rdkb-20190206 RaspberryPi Test Report (Gerrit)

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

Baseline

Baseline		20190206 baseline.
Post-baseline updates		
TDK	M62	https://wiki.rdkcentral.com/display/TDK/TDK-B+Release+M62
Manifest	rdkb-20190206	

Highlights since RDK-B_20180527

This is the first rdkb iteration based on the new rdk-next branch.

- Opensourced components:
  - rdkb/devices/raspberrypi/sysint, rdkb/devices/ci20/hal, rdkb/components/opensource/ccsp/GwProvApp-EthWan, rdkb/components /opensource/ccsp/MeshAgent, rdkb/components/opensource/ccsp/CcspEthAgent
- Components updated:
  - All components have been updated to incorporate an rdk-next branch.
- 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  - Separate patch files for the open-source OE layers are no longer maintained.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.

Getting the code

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

```
$ mkdir rdkb
$ cd rdkb
$ repo init -u https://code.rdkcentral.com/r/manifests -m rdkb.xml -b rdkb-20190206
$ 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-20190206 in the build sequence above specifies the branch to use.
- If you omit the -b rdkb-20190206 entirely, you will get the master (HEAD) of each component.
- At any time, the community can build latest master by dropping the -b rdkb-20190206 option in the repo init command.

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 M62

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-20190206
$ 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)

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.