

RDKB_2022q1_dunfell

This is the summary page that describes CMF quarterly release rdkb-2022q1-dunfell, based on the new branch rdk-next and dunfell oe layers. 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-2022q1-dunfell RaspberryPi 3 Test Report](#) (Gerrit)
- [rdkb-2022q1-dunfell Turris Gateway 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-2021q4-dunfell](#) can be found [here](#).

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Baseline

Baseline Branch	nightly/20220321-dunfell
Post-baseline updates	NA
TDK	M98
Manifest branch	rdkb-2022q1-dunfell

Highlights

Components updated since rdkb-2022q1-dunfell

rbus	CcspAdvSecurity	GwProvApp-ePON
rbuscore	CcspCMAgent	MeshAgent
OvsAgent	CcspCommonLibrary	PowerManager
WebconfigFramework	CcspCr	RdkPlatformManager
breakpad_wrapper	CcspDmCli	RdkPppManager
crashupload	CcspEPONAgent	RdkTelcoVoiceManager
dcm	CcspEthAgent	RdkVlanBridgingManager
jst	CcspHomeSecurity	RdkWanManager
libunpriv	CcspLMLite	RdkXdsIManager
rdk_logger	CcspMisc	TestAndDiagnostic
rdkssa	CcspMoCA	Utopia

rfc	CcspMtaAgent	Xconf
telemetry	CcspPandM	hal
xupnp	CcspPsm	halinterface
rdk/components/opensource/ipoe_health_check	CcspSnmpPa	hotspot
rdk/components/opensource/rtrmessage	CcspTr069Pa	sysint
rdk/devices/raspberrypi/webpa-client	CcspWifiAgent	webui
rdkb/components/generic/CcspLogAgent	CcspXDNS	webui-bwg
rdkb/components/generic/harvester	FirmwareSanity	rdkb/devices/raspberrypi/hal
rdkb/components/generic/notify_comp	GwProvApp	rdkb/devices/raspberrypi/sysint
rdkb/components/generic/sso	GwProvApp-EthWan	

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Separate patch files for the open-source OE layers are no longer maintained.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-2021q4-dunfell](#) can be found [here](#).

Getting the code

Note:

- *The manifests repository is only available to RDK licensees.*
- *Opensource versions of the RDKB manifests are available from the [rdkcmf/manifests repository](#) [rdkb-2022q1-dunfell](#) branch*

```
mkdir <workspace dir>
cd <workspace dir>

repo init -u https://code.rdkcentral.com/r/rdkcmf/manifests -m <manifest.xml> -b rdkb-2022q1-dunfell
repo sync -j `nproc` --no-clone-bundle --no-tags
```

- The -m <manifest.xml> in the sequence above is important. If this is not specified, you will get an RDK-V tree by default.
 - For RPI builds use manifest: rdkb.xml

```
repo init -u https://code.rdkcentral.com/r/rdkcmf/manifests -m rdkb-extsrc.xml -b rdkb-2022q1-dunfell
```

- For Turris builds use manifest: rdkb-turris-extsrc.xml

```
repo init -u https://code.rdkcentral.com/r/rdkcmf/manifests -m rdkb-turris-extsrc.xml -b rdkb-2022q1-dunfell
```

- The -b rdkb-2022q1-dunfell in the build sequence above specifies the branch to use.
- If you omit the -b rdkb-2022q1-dunfell entirely, you will get the HEAD of each component

Building the code

Building for RaspberryPi 3

```
mkdir <workspace dir>
cd <workspace dir>

repo init -u https://code.rdkcentral.com/r/rdkcmf/manifests -m rdkb-extsrc.xml -b rdkb-2022q1-dunfell
repo sync -j `nproc` --no-clone-bundle --no-tags

MACHINE=raspberrypi-rdk-broadband source meta-cmf-raspberrypi/setup-environment

bitbake rdk-generic-broadband-image

# To build TDK image
bitbake rdk-generic-broadband-tdk-image
```

- Note. The kernel Image and root filesystem will be created under the `./tmp/deploy/images/raspberrypi-rdk-broadband` folder

Building for RaspberryPi 4B 32 Bit

```
mkdir <workspace dir>
cd <workspace dir>

repo init -u https://code.rdkcentral.com/r/rdkcmf/manifests -m rdkb-extsrc.xml -b rdkb-2022q1-dunfell
repo sync -j `nproc` --no-clone-bundle --no-tags

MACHINE=raspberrypi4-rdk-broadband source meta-cmf-raspberrypi/setup-environment

bitbake rdk-generic-broadband-image

# To build TDK image
bitbake rdk-generic-broadband-tdk-image
```

- Note. The kernel Image and root filesystem will be created under the `./tmp/deploy/images/raspberrypi4-rdk-broadband` folder

Building for RaspberryPi 4B 64 Bit

```
mkdir <workspace dir>
cd <workspace dir>

repo init -u https://code.rdkcentral.com/r/rdkcmf/manifests -m rdkb-extsrc.xml -b rdkb-2022q1-dunfell
repo sync -j `nproc` --no-clone-bundle --no-tags

MACHINE=raspberrypi4-64-rdk-broadband source meta-cmf-raspberrypi/setup-environment

bitbake rdk-generic-broadband-image

# To build TDK image
bitbake rdk-generic-broadband-tdk-image
```

- Note. The kernel Image and root filesystem will be created under the `./tmp/deploy/images/raspberrypi4-64-rdk-broadband` folder

Building for Turris GW

```
mkdir <workspace dir>
cd <workspace dir>

repo init -u https://code.rdkcentral.com/r/rdkcmf/manifests -m rdkb-turris-extsrc.xml -b rdkb-2022q1-dunfell
repo sync -j `nproc` --no-clone-bundle --no-tags

MACHINE=turris source meta-turris/setup-environment

bitbake rdk-generic-broadband-image

# To build TDK image
bitbake rdk-generic-broadband-tdk-image
```

Building for Turris Extender

```
mkdir <workspace dir>
cd <workspace dir>

repo init -u https://code.rdkcentral.com/r/rdkcmf/manifests -m rdkb-turris-pod-extsrc.xml -b rdkb-2022q1-dunfell
repo sync -j `nproc` --no-clone-bundle --no-tags

MACHINE=turris-extender source meta-turris/setup-environment

bitbake rdk-generic-extender-image
```

Building for RPI4 Extender

```
mkdir <workspace dir>
cd <workspace dir>

repo init -u https://code.rdkcentral.com/r/rdkcmf/manifests -m rdkb-pod-extsrc.xml -b rdkb-2022q1-dunfell
repo sync -j `nproc` --no-clone-bundle --no-tags

MACHINE=raspberrypi4-rdk-extender source meta-cmf-raspberrypi/setup-environment

bitbake rdk-generic-extender-image
```

Documentation

Documentation on the RDK-B reference platforms including host requirement setup and flashing instructions are available from the following links:

[RDK Reference Platforms](#)

[RDK-B \(RaspberryPi\)](#)

[RDK-B R-Pi Yocto 3.1 - Dunfell](#)

[RDK-B \(Raspberry Pi\) Build and Setup Manual - Router Profile](#)

[RDK-B Turris](#)

For all other RDK documentation please refer to the RDK wiki at <https://wiki.rdkcentral.com/>

Testing

Sanity Testing

RPI Sanity tests include:

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

Turris Sanity test include:

- Services checks (wifiagent, hostapd, ccsp processes)
- Network (WAN) connectivity
- Wifi 2.4Ghz and 5Ghz hotspot testing.
- LAN client
- Admin WEBUI works over <router IP>:8080 and WiFi
- Extender Plume NOC Connectivity with Turris Extender and RPI 4 Extender

TDK Testing

- TDK component tests were run against the release
 - RPI results are available [here](#).
 - Turris results are available [here](#).
 - There is a known stability issue when running TDK tests, see [REFPLTB-1638](#) - Getting issue details... STATUS
- TDK Manager used is [M98](#)
- TDK Test Suite XML's can be downloaded from [TDK-B Test Suite XML's - RDKB 2022q1](#)
- Refer to the [test release metrics](#) page for detailed test results and comparison to previous releases (*available for preferred members only*)