

RDKB_2022q4_dunfell

This is the summary page that describes the CMF quarterly release **rdkb-2022q4-dunfell**, based on the branch rdk-next and dunfell oe layers. Below are links to the relevant documents.

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

- [RPI-B Test Reports - rdkb-2022q4-dunfell](#)
- [Turris Omnia Reports - rdkb-2022q4-dunfell](#)
- [CDRouter Test Report - rdkb-2022q4](#)
- [rdkb-2022q4-dunfell RaspberryPi 3 Test Report \(Gerrit\)](#)
- [rdkb-2022q4-dunfell Turris Gateway Test Report \(Gerrit\)](#)
- [RDKB-2022q4-dunfell RPi 3 Broadband License Manifest Report](#)
- [RDKB-2022q4-dunfell RPi 4 32bit Broadband License Manifest Report](#)
- [RDKB-2022q4-dunfell RPi 4 64bit Broadband License Manifest Report](#)
- [RDKB-2022q4-dunfell Turris Gateway Broadband License Manifest Report](#)
- [RDKB-2022q4-dunfell Turris Extender Broadband License Manifest Report](#)

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-2022q3-dunfell](#) can be found [here](#).

- [Baseline](#)
- [Highlights](#)
 - [Components updated since rdkb-2022q3-dunfell](#)
 - [Patches](#)
 - [Community contributions](#)
- [Getting the code](#)
- [Building the code](#)
 - [Building for RaspberryPi 3](#)
 - [Building for RaspberryPi 4B 32 Bit](#)
 - [Building for RaspberryPi 4B 64 Bit](#)
 - [Building for Turris GW](#)
 - [Building for Turris Extender](#)
- [Documentation](#)
- [Testing](#)
 - [Sanity Testing](#)
 - [TDK Testing](#)

Baseline

Baseline Branch	nightly/20221203-dunfell
Post-baseline updates	NA
TDK	M107
Manifest branch	rdkb-2022q4-dunfell

Highlights

Components updated since rdkb-2022q3-dunfell

rbus	CcspCMAgent	R d k G p o n M a n a g e r
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rbuscore	CcspCommonLibrary	R d k Pl at fo r m M a n a g e r
OvsAgent	CcspCr	R d k P p p M a n a g e r
WebconfigFramework	CcspEPONAgent	R d k T e l c o V o i c e M a n a g e r
crashupload	CcspEthAgent	R d k V l a n B r i d g i n g M a n a g e r
jst	CcspLMLite	R d k W a n M a n a g e r

libunpriv	CcspMisc	R d k X d s l M a n a g e r
lxc-container-generator	CcspMoCA	T e s t A n d D i a g n o s t i c
rdk_logger	CcspMtaAgent	U t o p i a
rdm	CcspPandM	X c o n f
rfc	CcspPsm	h a l
telemetry	CcspSnmpPa	h a l i n t e r f a c e
xupnp	CcspTr069Pa	h o t s p o t
rdk/components/opensource/rtmessage	CcspWifiAgent	s y s i n t
rdkb/components/generic/harvester	CcspXDNS	w e b u i
rdkb/components/generic/json-rpc	GwProvApp	w e b u i - b w g

rdkb/components/generic/mtu_modifier	GwProvApp-EthWan	rd k b /d e v i c e s /r a s p b e r y p i /h a l
rdkb/components/generic/notify_comp	GwProvApp-ePON	
rdkb/components/generic/startParodus	MeshAgent	
CcspAdvSecurity	RdkCellularManager	

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-2022q3-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-2022q4-dunfell* branch

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

repo init -u https://code.rdkcentral.com/r/rdkcmf/manifests -m <manifest.xml> -b rdkb-2022q4-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.xml -b rdkb-2022q4-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-2022q4-dunfell
```

- The -b rdkb-2022q4-dunfell in the build sequence above specifies the branch to use.
- If you omit the -b rdkb-2022q4-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.xml -b rdkb-2022q4-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.xml -b rdkb-2022q4-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.xml -b rdkb-2022q4-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-2022q4-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-2022q4-dunfell
repo sync -j `nproc` --no-clone-bundle --no-tags

MACHINE=turris-extender source meta-turris/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
- LAN client
- Wifi 2.4Ghz and 5Ghz hotspot testing.
- Login, menu navigation, parameter modification, e.g. Wifi SSID/password change and re-connection, changing admin password.

Test No.	Test	RPI 3	RPI 4 32 Bit	RPI 4 64 Bit
1	Boot up & SSH access			
2	Verify SSID name & password			
3	Captive Portal page			
4	Check Internet connectivity (Wi-Fi client)			
5	Check Web UI Launch with local gateway IP and login with admin			
6	verifying whether it is listing the basic parameters			

7	Verified the connected devices are listing			
8	Process Checklist - list of process running and ensure all the CCSP processes are running			
9	DMCLI Output. Verify it is listing all the parameters			

Turris Sanity test include:

- Services checks (wifiagent, hostapd, ccsp processes)
- Network (WAN) connectivity
- Wifi 2.4Ghz and 5Ghz hotspot testing.
- LAN client
- Ping and traceroute via WEB UI
- 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
- TDK Manager used is [TDK-B Release M107](#)
- Refer to the [test release metrics](#) page for detailed test results and comparison to previous releases (*available for preferred members only*)