

RDKB_2024q1_dunfell

This is the summary page that describes the CMF quarterly release **rdkb-2024q1-dunfell**, based on the branch **rdk-next** and **dunfell** oe layers. Below are links to the relevant documents.

- RPI profile has enabled DISTRO OneWifi.
- For RPI 4 Extender see [RPI4 Extender - reference implementation](#)
- TDK Testing was performed on the [rdkb-2024q1-kirkstone](#) release, please refer to this release for test results
- Turris GW is no longer supported for community releases.

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

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-2023q4-dunfell](#) can be found [here](#).

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Baseline

Baseline Branch	nightly/20240315-dunfell
Post-baseline updates	
TDK	M123
Manifest branch	rdkb-2024q1-dunfell

Highlights

Components updated since rdkb-2023q4-dunfell

CcspAdvSecurity	GwProvApp	rdkb/components/generic/mtu_modifier	telemetry
CcspCMAgent	halinterface	rdkb/components/generic/notify_comp	TestAndDiagnostic
CcspCommonLibrary	hotspot	rdkb/devices/raspberrypi/hal	Utopia
CcspCr	lxc-container-generator	rdkb/tools/tdkb	webui
CcspEPONAgent	MeshAgent	RdkCellularManager	webui-bwg
CcspEthAgent	meta-cmf	rdkcentral/DSM	Xconf
CcspHomeSecurity	meta-cmf-broadband	rdkcentral/opensync-vendor-rdk-rpi	xupnp
CcspLMLite	meta-cmf-mesh	rdkcentral/RdkEasyMeshController	
CcspMisc	meta-cmf-raspberrypi	rdkcentral/RdkEasyMeshControllerSSP	
CcspMoCA	meta-rdk	RdkGponManager	
CcspPandM	meta-rdk-broadband	RdkInterDeviceManager	
CcspPsm	meta-rdk-bsp-emulator	RdkLedManager	
CcspSnmppa	meta-rdk-ext	RdkPppManager	
CcspTr069Pa	OneWifi	RdkTelcoVoiceManager	
CcspWifiAgent	OvsAgent	RdkVlanBridgingManager	
CcspXDNS	rdk_logger	RdkWanManager	

cpuprocanalyzer	rdk-wifi-hal	RdkXdsIManager	
crashupload	rdk/devices/raspberrypi/webpa-client	rdm	
dca	rdk/tools/tdk	rfc	
DhcpManager	rdkb/components/generic/json-rpc	sysint	

Community contributions

A detailed changelog since the last release [rdkb-2023q4-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-2024q1-dunfell](#) branch

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

repo init -u https://code.rdkcentral.com/r/rdkcmf/manifests -m <manifest.xml> -b rdkb-2024q1-dunfell
repo sync --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-2024q1-dunfell
```

- The -b rdkb-2024q1-dunfell in the build sequence above specifies the branch to use.
- If you omit the -b rdkb-2024q1-dunfell entirely, you will get the HEAD of each component

Building the code

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-2024q1-dunfell
repo sync --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-2024q1-dunfell
repo sync --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 RaspberryPi 4 Extender

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

repo init -u https://code.rdkcentral.com/r/manifests -m rdkb-pod-extsrc.xml -b rdkb-2024q1-dunfell
repo sync --no-clone-bundle --no-tags

<UPDATE 0001-Update-bhaul-credential.patch in meta-cmf-broadband layer>

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](#)
- [Kirkstone \(Yocto 4.0\) Migration - RDK-B](#)
- [RPI4 Extender - reference implementation](#)

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 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		

TDK Testing

- TDK component tests were not run against the release