rdkv-2021q4 morty & dunfell IP Client

This is the summary page that describes CMF morty and dunfell quarterly releases **rdkv-2021q4** (morty) and **rdkv-2021q4-dunfell** (dunfell) for the opensource IP Client STB profile based on RPi platform.

This release is based on the branch rdk-next and yocto project versions **morty** (rdkv-2021q4) and **dunfell** (rdkv-2021q4-dunfell).

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

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  - rdkv-2021q4-dunfell
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Baseline

rdkv-2021q4

Baseline Morty	nightly/20211209
Manifest Branch Morty	rdkv-2021q4

rdkv-2021q4-dunfell

Baseline Dunfell	nightly/20211209-dunfell
Manifest Branch Dunfell	rdkv-2021q4-dunfell

Highlights

Components updated since rdkv-2021q3

aamp	ledmgr	rbus	trm
aampabr	libunpriv	rbuscore	ttsengine
appmanager	lxc-container-generator	RDK_apps	waymetric
audiocapturemgr	mediaframework	rdk_logger	westeros
bluetooth	meta-cmf	rdk/components/opensource/rtmessage	wifi
bluetooth_leAppMgr	meta-cmf-qt5	rdk/components/opensource/sysint	xr-speech-router
bluetooth_mgr	meta-cmf-raspberrypi	rdk/devices/intel-x86-pc/emulator/sysint	xr-speech-vrex
closedcaption	meta-cmf-raspberrypi-restricted	rdk/devices/raspberrypi/webpa-client	xraudio
cobalt	meta-cmf-restricted	rdk/tools/tdk	xraudio-hal_ctrlm
control	meta-cmf-video	rdkbrowser2	xupnp
crashupload	meta-cmf-video-reference	rdkmediaplayer	
dca	meta-cmf-video-reference-next	rdm	
devicesettings	meta-cmf-video-restricted	rfc	
dvr	meta-rdk	rmf_mediastreamer	

fog	meta-rdk-bsp-emulator	servicemanager	
gst-plugins-rdk	meta-rdk-ext	storagemanager	
gst-plugins-rdk-aamp	meta-rdk-restricted	subtec-app	
hdmicec	meta-rdk-video	telemetry	
hwselftest	meta-rdk-voice-sdk	tools/tdk-advanced	
iarmbus	netmonitor	tr69	
iarmmgrs	netsrvmgr	tr69hostif	

Components updated since rdkv-2021q3-dunfell

aamp	iarmbus	meta-rdk-video	storagemanager
aampabr	iarmmgrs	meta-rdk-voice-sdk	subtec-app
appmanager	ledmgr	netmonitor	telemetry
audiocapturemgr	libunpriv	netsrvmgr	tools/tdk-advanced
bluetooth	lxc-container-generator	rbus	tr69
bluetooth_leAppMgr	mediaframework	rbuscore	tr69hostif
bluetooth_mgr	meta-cmf	RDK_apps	trm
closedcaption	meta-cmf-qt5	rdk_logger	ttsengine
cobalt	meta-cmf-raspberrypi	rdk/components/opensource/rtmessage	waymetric
control	meta-cmf-raspberrypi-restricted	rdk/components/opensource/sysint	westeros
crashupload	meta-cmf-restricted	rdk/devices/intel-x86-pc/emulator/sysint	wifi
dca	meta-cmf-video	rdk/devices/raspberrypi/webpa-client	xr-speech-router
devicesettings	meta-cmf-video-reference	rdk/tools/tdk	xr-speech-vrex
dvr	meta-cmf-video-reference-next	rdkbrowser2	xraudio
fog	meta-cmf-video-restricted	rdkmediaplayer	xraudio-hal_ctrlm
gst-plugins-rdk	meta-rdk	rdm	xupnp
gst-plugins-rdk-aamp	meta-rdk-bsp-emulator	rfc	
hdmicec	meta-rdk-ext	rmf_mediastreamer	
hwselftest	meta-rdk-restricted	servicemanager	

Community contributions

- *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 **morty** release rdkv-2021q3 can be found here.
- A detailed changelog since the last **dunfell** release rdkv-2021q3-dunfell can be found here.

Getting the code

*Note: The **rdkcmf/manifests** repository https://code.rdkcentral.com/r/rdkcmf/manifests is opensource and can be used to build the IP Client RPi Profile.*

Building for RaspberryPi IP Client

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

# <release manifest branch> is rdkv-2021q4 for morty and rdkv-2021q4-dunfell for dunfell
repo init -u https://code.rdkcentral.com/r/rdkcmf/manifests -m rdkv-extsrc.xml -b <release manifest branch>
repo sync -j4 --no-clone-bundle

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

bitbake rdk-generic-ipclient-image
```

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

Documentation

RDK Reference Platforms

RDK-V R-Pi Yocto 2.2 - Morty

RDK-V R-Pi Yocto 3.1 - Dunfell

IP Client Based STB (Raspberry Pi)

RDK Services on Raspberrypi

RDK Services on RPi User Manual

Testing

Sanity Testing

Sanity tests include:

- Playing video from local source using gst-play.
- Streaming from hybrid to media client using rmfApp.
- Playing video using gstplayer (gst-launch).
- Playing video using aamp-cli
- RDK Resident App Verification
- Wifi
- Bluetooth remote