

RFP - Release Notes - 2022 - M9



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RDK Reference Platform (RFP)

Version: 1.31
23 Sept 2022

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Revision History

Release No.	Date	Revision Description
1.31	23 Sept 2022	Broadband • Clients are not getting internet at first boot in Turris-GW - REFPLTB-1789 • Add REJECT target for iptables - REFPLTB-1801 • Observing CcspWifiagent crash in RPi4 64-bit build - REFPLTB-1808 Video • RPi 3 and RPi 4 UI not showing full screen - REFPLTV-1454 • UI screen alignment is changing upon changing the Resolution on RPi device - REFPLTV-1385 • Continue on image generation for sagemcom, with meta-rdk-voice layer - REFPLTV-1482 • Dunfell voice enabled build support request - REFPLTV-1484 • Opensourcing Mediaframework Emulator - BLDKCMF-41 • RDK-V Dunfell Emulator Code push for meta-x-bspemulator layer - REFPLTV-1448 • RDK-V Dunfell Emulator Code push for meta-rdk-ext, meta-X-video, meta-cmf layer - REFPLTV-1451 • RDK-V Dunfell Emulator Code push for meta-rdk-restricted layer - REFPLTV-1450 • RDK-V Dunfell Emulator Code push for meta-rdk layer - REFPLTV-1449 • RDKServices: RDKShell- Device is not responding to any curl requests after enabling inactivity reporting - REFPLTV-1401 Camera • list out camera in RPi 3B+ with cam utility - REFPLTCAM-244 - Phase I • Upgrade bootloader version for RPi Camera - REFPLTCAM-253 • Upgrade libcamera version from 8b02...f89 into 685d...221 - REFPLTCAM-254
1.30	26 Aug 2022	Broadband • Running dibbler-server with brlan0 in reference platform target - REFPLTB-1741 • Creating /opt/secure folder for scp in TDK builds and Turris extender builds - REFPLTB-1756 Video • Video playback is not working through gst-launch in RPi4-64bit Image - REFPLTV-1412 • Resident app and Controller UI are not launching in RPi4-32bit image - REFPLTV-1425 • RPi4 Linux Kernel version upgrade - REFPLTV-1420 Camera • Prepare RDK-C architecture Wiki Page - REFPLTCAM-227 • RMS and CVR playback is not working in latest camera build - REFPLTCAM-237

1.29	29 Jul 2022	Video - Firmware Upgrade is not working in RDKV RPI - REFPLTV-1396 - Video Stops at the 1st frame and doesn't move on HDR 60fps video playback with resolution 1080p60 on YouTube App on RPi4 - REFPLTV-1268 - Bluetooth scanning is not happening on recent Dunfell Images - REFPLTV-1370 Broadband - Linux Kernel upgrade to 5.10 version for Turris Omnia - REFPLTB-1720 - Fixing issues with Linux-kernel_5.10 for Turris Omnia - REFPLTB-1739 Camera - pw stream re-initialized not happening and updating read frame return value. - REFPLTCAM-193 - Upgrade latest libcamera revision from dc7fc90573b99bbc6d21a25a741891471d68f274(22Apr22) - REFPLTCAM-198
1.28	30 Jun 2022	Broadband - Firewall rules are missing in Turris GW recent build - REFPLTB-1683 - Need modification during startup for turris extender - REFPLTB-1707 - Create tagged dunfell build for Turris-Omnia- June2022 - REFPLTB-1723 - Create git tagged dunfell build for Rpi4 extender- June2022 - REFPLTB-1721 - Tagged build for RPI3 gateway for June2022 - REFPLTB-1722 Camera - Validated RDK-C use case with upgraded PipeWire - REFPLTCAM-187 Video - UI Display on TV is not coming full screen on RPi4 Image - REFPLTV-1247 - RDKServices: org.rdk.System.2.getTimeZones API is returning empty response - REFPLTV-1279 - Observed UI flickering in Youtube application when progress - REFPLTV-1254
1.27	06 Jun 2022	Broadband - Check on the platform HAL API implementation for the RPI - REFPLTB-1663 - Check on the platform HAL API implementation for the Turris Omnia - REFPLTB-1664 - TDK and CMF priority Tickets - Git tagged build for Turris-omnia - REFPLTB-1702 Video - Crash observed when few plugins are activated from Controller UI - REFPLTV-1241 - Crash observed when we enabled Webkitbrowser plugins from Controller UI. - REFPLTV-1248 [AAMPCLI] AAMP_EVENT_PROGRESS logs are not coming up with aamp-cli video playback on recent Dunfell Images - REFPLTV-1293 - On boot up, Accelerator Home UI is not coming up consistently on RPi4 - REFPLTV-1029 - RDKService: Unable to launch Cobalt in Dunfell image - REFPLTV-1083 Camera - Supported live stream using OpenwebRTC in Mobile Application - REFPLTCAM-183 - Resolved latest Pipewire crash issue - REFPLTCAM-188 - Bring up rtc-app Component for WebRTC live streaming. - REFPLTCAM-180 (Phase II)
1.26	06 May 2022	Broadband - Webconfig framework integration in RPI (PHASE I) - REFPLTB-1611 - Turris GW - not getting erouter0 IP on most boots - REFPLTB-1643 - Create April2022 tagged dunfell builds for RDKB RPI - REFPLTB-1684 - Create April2022 tagged dunfell build for Turris-omnia Extender - REFPLTB-1687 Video - On boot up, Accelerator Home UI is not coming up consistently on RPi4 - REFPLTV-1029 [IPSTB Dunfell] BT scanning is not working through TV UI - REFPLTV-1251 - WiFi network list is not displayed on enabling WiFi on IPSTB Image - REFPLTV-1261 - Cobalt (YouTube) is not launching in morty RPI profiles - REFPLTV-1223 - Wifi IP not retained after reboot.[IPSTB morty and dunfell] - REFPLTV-1252 Camera - Upgrade PipeWire version from 0.3.23 into 0.3.50 - Phase I (Build completed, Need to be validate RDK-C use cases) - REFPLTCAM-164 - Upgrade latest libcamera version - Phase I (Build completed, Need to be validate RDK-C use cases) - REFPLTCAM-184

1.25	04 Apr 2022	Broadband • RPI build without WanManager DISTRO - REFPLTB-1612 • WiFi HAL 3.0 support for RPI - Phase 2 - REFPLTB-1608 • 64bit arch support on RPi4 - Phase 4 - REFPLTB-1478 • Create March2022 tagged dunfell builds for Turris-omnia - REFPLTB-1645 • Create tagged dunfell rpi4 extender build for Mar2022 - REFPLTB-1644 • Create tagged dunfell emulator build for Mar2022 - REFPLTB-1648 • TDK and CMF priority Tickets • Supported 2022Q1 CMF Release Video • Unable to play the Next video content on YouTube with Macro-Enabled Use case - REFPLTV-1215 • GPLv2 in video builds for faad2 - REFPLTV-1234 • Wi-Fi connection is not working from TV UI & Controller UI. - REFPLTV-1208 • WiFi connection is not working from Accelerator Home UI on RPi4 - REFPLTV-1032 • After enabled the wifi button through Tv UI, ethernet IP is missing. - REFPLTV-953 • Unable to connect Wifi from Controller UI - REFPLTV-1023 • Supported 2022 CMF Q1 release. Camera • Bring up rtc-app Component for WebRTC live streaming. - REFPLTCAM-180 (Phase I) • Develop the logic to communicate b/w peer connection client and server and mobile app - REFPLTCAM-179 • Implement live streaming video in the mobile application using open webrtc. - REFPLTCAM-182 • Resolve playback issue with pipewire in RMS , CVR sequence. - REFPLTCAM-175 • Prepare pipewire API documentation. - REFPLTCAM-170 • Supported 2022 CMF Q1 release.
1.24	04 Mar 2022	Broadband • WiFi HAL 3.0 support for RPI - Phase 1 - REFPLTB-1546 • [Bridge Mode] LAN status remains started in case of bridge mode - REFPLTB-1569 • 64bit arch support on RPi4 - REFPLTB-1569 • Remove unused components for RDKB Turris Omnia - REFPLTB-1547 • TDK and CMF priority Tickets • Turris-Omnia bug Tickets • Including hal-wifi-cfg80211 for hal-wifi in Emulator build -REFPLTB-1545 • Adding source code folder to rdkb-emu-hal - REFPLTB-1578 • ccsp-tr069-pa-1.99-r0 do_install error - REFPLTB-1592 • Create tagged dunfell rpi4 extender build for Feb2022 - REFPLTB-1604 • Create Feb2022 tagged dunfell builds for Turris-omnia - REFPLTB-1605 Camera • Maintain pipewire streaming calls in common lib for all Application - phase 3 - REFPLTCAM-176 • Bring up openwebrtc-m72 component in RDK-C - REFPLTCAM-167 • Bug Fix - REFPLTCAM-178 Video • Wifi/Ethernet connectivity issue in RPI RDK-V Q42021 release - REFPLTV-1197 • video not being rendered during playback using rmfStreamer - REFPLTV-1195 • RDKServices: org.rdk.DisplaySettings.1.getCurrentResolution API is returning resolution as "null" - REFPLTV-1003 • IPSTB RPI console prompt is popping on switching between applications in Resident APP UI. - REFPLTV-1105 • RDKServices: Wifi interface is getting disabled on connecting to wifi - REFPLTV-1200
1.23	04 Feb 2022	Broadband • stabilization on 64bit arch support - REFPLTB-1413 • 64bit arch support on RPi4(both dbus and rbus) - Phase 4-REFPLTB-1478 • Resolving build time warnings in CCSP components for RPi4 64bit - REFPLTB-1375 • Resolved TDK and CMF priority tickets • Integrate WanManager into RDKB stack for Turris Omnia - REFPLTB-939 • scp sending files does not work in Turris-omnia - REFPLTB-1531 • webui component issues in Emulator - REFPLTB-1518 • lighttpd is not active at the port 8080 -REFPLTB-1513 • rdk-generic-broadband-image-1.0-r0 do_rootfs: Postinstall scriptlets of ['lighttpd'] have failed. -REFPLTB-1538 • Create Jan2022 tagged dunfell builds for Turris-omnia - REFPLTB-1539 • Create Jan2022 tagged dunfell build for Rpi4 Extender - REFPLTB-1542 • Create tagged dunfell for RDKB Emulator Jan2022 - REFPLTB-1543 Camera • Maintain pipewire streaming calls in common lib for all Application - phase II - REFPLTCAM-176 • Support Bootstrap automatic process for RMS and CVR validation with pipewire. - REFPLTCAM-161 • Build failure fix - REFPLTCAM-177 Video • After launching CNN and Vimeo application device got rebooted. - REFPLTV-1103

1.22	05 Jan 2022	Broadband • WebUI PHP to JST migration for Emulator - REFPLTB-1507 • ccsp-psm : do_configure error - REFPLTB-1509 • WebUI is not launching on Emulator Dunfell Image - REFPLTB-1484 • 64bit arch support on RPi4 - Phase 4 - REFPLTB-1478 • Resolving build time warnings in CCSP components for RPi4 64bit - REFPLTB-1375 • Resolved TDK and CMF priority tickets Camera • Maintain pipewire streaming calls in common lib for all Application. - REFPLTCAM-176 • RDK-C supporting Pipewire and Mobile app features - Webinar Video • After launching CNN and Vimeo application device got rebooted. - REFPLTV-1103 • RDKServices: Observing crash on launching Cobalt application on RDKShell - REFPLTV-869
1.21	03 Dec 2021	Broadband • 64bit arch support with upgraded kernel of 5.10.52 • UBOOT support enabled in 64bit arch • Resolving build time warnings in CCSP components in 64bit arch • Added Blocklist Mechanism for non-root user support for all reference platforms • RDK Community and Support tickets for RDKB • E2E validation on RPi4 64bit arch with upgraded kernel of 5.10.52 • WiFi HAL 3.0 build support for RDKB • Stabilizing RDKB Emulator dunfell build -REFPLTB-1422 • RDKB Emulator is not getting proper erouter0 port IP address - REFPLTB-1458 • Reduce size of Turris omnia RDK image - REFPLTB-1445 • Boot time data feature support for RPi4 - REFPLTB-1449 • Nov2021 Tagged dunfell builds for Turris-omnia - REFPLTB-1468 • Create Nov2021 tagged dunfell build for RPi4 extender - REFPLTB-1470 Camera • Optimize camera image without Gstreamer package - Phase II - REFPLTCAM-162 • Upgrade latest KVS version from 2.0.2 - REFPLTCAM-168 • Bring up openwebrtc-m72 component in RDK-C - Phase I - REFPLTCAM-167 Video • RDK-V R-Pi4 64 bit Migration - {Phase-1 } - REFPLTV-1146 • iammgr and other services failing with cmf-update-RDK-32931_2107-stable2-20211124 - REFPLTV-1156 • After launching CNN and Vimeo application device got rebooted. - REFPLTV-1103 • Kernel upgrade to 5.10 - REFPLTV-1103
1.20	03 Nov 2021	Broadband • 64bit arch support with RBUS on RPi4 - Phase II • Resolving build time warnings in CCSP components for RPi4 64bit • Create RPi tagged dunfell build for oct2021 • E2E validation on RPi4 64bit arch with RBUS support • RDK Community and Support tickets • WAN manager integration in RDKB emulator-REFPLTB-1373 • Oct2021 Tagged dunfell build for RPi4 Extender - REFPLTB-1417 • Kernel upgrade to 5.10 for RPi4 32bit arch - REFPLTB-1374 • Tagged dunfell build for Turris Extender for Oct2021 - REFPLTB-1428 • Creating git tagged build for Turris GW for Oct2021 sprint - REFPLTB-1443 Camera • Optimize camera image without Gstreamer package - Phase I - REFPLTCAM-162 • Build failure fix - REFPLTCAM-163 Video • aamp-cli, gst-launch not working in latest dunfell - REFPLTV-1142 • AV playback is not working through aamp-cli. - REFPLTV-1101 • TV shows content are not playing. - REFPLTV-1102

1.19	05 Oct 2021	Broadband • 64bit arch support on RPI4 - Phase I - REFPLTB-1317 • Git tagged releases for RPI3 on dunfell branch - REFPLTB-1360 • RDKSSA Validation support for comcast team - REFPLTB-1352 • Zilker-sdk recipe Improvement • Emulator-dunfell image size reduction - REFPLTB-1270 • Turris Extender Q3 release Blocker - REFPLTB-1349, REFPLTB-1350 • Enable firewall for Turris omnia platform - REFPLTB-1207 • Building Linux Kernel 5.10 for Turris Omnia - REFPLTB-1309 • Git tagged releases for RPI4 extender - REFPLTB-1368 • Git tagged releases for Turris Omnia on dunfell branch - REFPLTB-1370 • Validate RDKB Emulator dunfell build - REFPLTB-1318 Camera • Support CVR feature with Pipewire - REFPLTCAM-149 • Validate rms and cvr at simultaneously with pipewire - REFPLTCAM-155 • Build failure fix - REFPLTCAM-160 Video • IPSTB Morty with the community Q-3 release • Bug fixes in UI • RDK Community Support
1.18	06 Sept 2021	Broadband • RdkFwUpgradeManager Integration in RPI - REFPLTB-1265 • WAN Manager Integration in RDKB RPI target platform - Phase II - REFPLTB-1204 • RPI4 Extender validation with SuperPOD - REFPLTB-1034 • Git tagged releases for RPI on dunfell branch - REFPLTB-1305 • Git tagged releases for Turris Omnia on dunfell branch - REFPLTB-1302 • RDKB Emulator: Moving away from source-pc to source for CCSP components - REFPLTB-1226 • Updating the hal-wifi-cfg80211 repo with reference to rdkb-turris-hal - REFPLTB-1283 Camera • Support RMS feature with Pipewire - REFPLTCAM-145 • RDK-C Mobile application supports live streaming using RTS protocol - REFPLTCAM-136 Video • RDKV Revamp UI / Contributions • IPSTB Profile Support • RDK Community Support
1.17	04 Aug 2021	Broadband • Porting of WanManger with New Ethernet Manager Arch - REFPLTB-1217 • Fixing the issues on Hackathon Base branch - REFPLTB-1227 • Created dunfell tagged build for RPI3 -REFPLTB-1252 • Build fixing for RDK-B Emulator Dunfell Migration - Phase-1-REFPLTB-1199 • Git tagged releases for Turris Omnia on dunfell branch - REFPLTB-1260 Camera • Analyzed the communication between Pipewire and Pipewire media media session - REFPLTCAM-143 • Supported validation of multiple sample application with pipewire callback. - REFPLTCAM-144 • Resolved build issue and camera detection issue - REFPLTCAM-146 , REFPLTCAM-147 • Created July2021 tagged dunfell build for Camera - REFPLTCAM-148 Video • Bring up of Rpi4 32bit Dunfell - REFPLTV-893 • Revamp of Resident APP UI - REFPLTV-968 • Bug fixes in UI.

1.16	30 Jun 2021	Broadband • WAN Manager Integration in RDKB RPI target platform -REFPLTB-905 • Build Fixes for RDKB Emulator • Bringup RPI4 Extender with OpenSync - REFPLTB-1000 • Common Wi-Fi HAL for reference platform - REFPLTB-1146 Camera • Sample pipewire use case validation without gstreamer - REFPLTCAM-139 • WiFi Ip is missing after reboot - REFPLTCAM-141 • Capture the h264 encoded data from camera without gstreamer - REFPLTCAM-142 Video • Revamp of Resident APP UI - REFPLTV-968 • IPSTB Bringup on R-Pi3 (Phase-1)- REFPLTV-892 • Bug fixes in UI
1.15	05 Jun 2021	Broadband • Telemetry 2.0 support in RPI - REFPLTB-1041 • Added Zilker-sdk recipe in R-Pi - Phase 1 -REFPLTB-1025 • Rpi4 Extender bringup with opensync-2.0 - REFPLTB-1070 • Common Wi-Fi HAL for reference platform - REFPLTB-1146 Camera • Validate CVR use case with pipewiresrc plugin - REFPLTCAM-134 • HTTP Firmware Upgrade is not working in RPi - REFPLTCAM-127 Video • Stabilization fixes in RPi Yocto 3.1 (Dunfell) image. • Stabilization of RDK Services. • Bug fixes in UI.
1.14	02 May 2021	Broadband • Release builds for Turris-Omnia - REFPLTB-1048 • TinyRDK for Turris Omnia target - REFPLTB-1021 • Design preparation for WiFi6 radio bring up in Turris Omnia - REFPLTB-1058 • Community Support for Turris Omnia target - REFPLTB-1063, REFPLTB-1068 • Integrate and compile Opensync_2.0 recipe for RPI4 target - REFPLTB-1070 Camera • Validate live stream using pipewire framework with gst-launch - REFPLTCAM-118 • Bringing RDKC Streamerhal component into the yocto framework - REFPLTCAM-104 • Bringing RDKC camera-apps component into the yocto framework - REFPLTCAM-103 • Resolve build failure in RDK-C - REFPLTCAM-125 Video • Stabilization fixes in RPi Yocto 3.1 (Dunfell) image. • Stabilization of RDK Services. • Bug fixes in UI.
1.13	31 Mar 2021	Broadband • Analyze and ensure the tiny RDK Changes brought up in Raspberry PI - REFPLTB-916 • Analyzed the tiny RDK changes in Raspberry PI and making changes for turris-omnia REFPLTB-1021 • Added wifihal Test binary to validate the wifi hal api's in emu console - REFPLTB-1018 • Wifi Hal refactoring for gathering the information of Associated wireless clients - REFPLTB-1038 • Fixed Build errors for Unification of rtmessage on both RDKB and RDKC • Fixed Turris Extender opensync_2.0.5 build errors in dunfell - REFPLTB-964 Camera • Audio playback with pipewire utility - REFPLTCAM-124 • Resolved firmware upgrade issue Video • Stabilization fixes in RPi Yocto 3.1 (Dunfell) images • Enhancements in Resident App UI • Bug fixes on RDK Services

1.12	28 Feb 2021	Broadband - Analyze and ensure the tiny RDK Changes brought up in Raspberry PI - REFPLTB-916 - RDK-B Upgradation to R-Pi4 - REFPLTB-931 - Yocto 3.1 Migration with WebUI JST support in rpi3 Fixes - REFPLTB-923 - TR-069 Data Parameters Support- GPV, SPV for RPI - REFPLTB-928 - Extensible SDK (eSDK) support for Turris Omnia Phase2 - REFPLTB-584 - Git tagged releases for Turris Omnia on rdk-next branch - REFPLTB-976 Camera - Resolve buffer glitches and hang issue in RMS feature with libcamera. - REFPLTCAM-115 - validate cvr feature using libcamera - REFPLTCAM-108 - Bringup pipewire component in RDK-C. - REFPLTCAM-116 Video - RDKCentral's generic TR-069 Data Model used in RPi platform - Fixed RDK Services stabilization tickets - Pinned Revision for RDK components in eSDK support - Resolved few Community tickets
1.11	31 Jan 2021	Broadband - Yocto 3.1 with WebUI JST migration Support in RPI(Model 3B+/3B) target platform - REFPLTB-862 - Remote Management Support With HTTPS in RDKB RPI target platform - REFPLTB-893 - TR-069 Support for RPI - REFPLTB-899 - Telemetry- Cron Expression Support for Turris Omnia - REFPLTB-866 - Extensible SDK (eSDK) support on Dunfell Turris -REFPLTB-584 - Wireless Protection Setup(WPS) support for Turris Omnia - REFPLTB-673 - Git tagged releases for Turris Omnia on rdk-next branch - REFPLTB-924 Camera - extensible SDK (eSDK) support for raspberrypi - REFPLTCAM-105 - fixing zoom issue observed on libcamerasrc video capture - REFPLTCAM-106 - crash observed during capturing video using libcamerasrc after 40+ seconds of capture - REFPLTCAM-107 - Support RMS with RTSP feature using libcamera src - REFPLTCAM-110 Video - New RDK Resident App available in RPi images - Telemetry 1.0 feature on Video profiles - RDKShell runtime crash is fixed - MPEG-2 playback using hardware decoding on RPi available in Yocto 3.1 - Build issues fixed in RPi RefApp image on Yocto 3.1 - Migration of BRCM Reference Device 72180 to 20.2 sdk
1.10	08 Jan 2021	Broadband - Yocto 3.1 Migration and validation of RDKB features with opensync - REFPLTB-836 - Git tagged releases for Turris Omnia on rdk-next branch - Dec_30_12_2020 - Yocto 3.1 migration Support in RPI(Model 3B+/3B) target platform - REFPLTB-862 Camera - Yocto 3.1 Migration on rdk-next branch for RPI - REFPLTCAM-91 - Firmware Upgarde with HTTP support for RPI - REFPLTCAM-92 - libcamera validation with gst-launch-1.0 -REFPLTCAM-68 Video - Extensible SDK for Raspberrypi Platform - REFPLTV-730 NEW - Yocto 3.1 (Dunfell) Migration of RDK-Video profile's yocto builds on rdk-next branch - Phase 2 - REFPLTV-412 NEW - Firmware Upgrade on RPi platform from XCONF Server - REFPLTV-759 NEW - Stabilization of RDK Services on RDK-V images - fixed most of the issues - REFPLTV-514

1.9	30 Nov 2020	Broadband • RDK Telemetry for Turris omnia reference platform - REFPLTB-664 • Yocto 3.1 Migration on rdk-next branch for RPi - REFPLTB-862 • Validation on Migration from dunfell to rdk-next on Turris Omnia - REFPLTB-836 • Mesh config on R-Pi 4 (Proof of Concept) • Git tagged releases for Turris Omnia on rdk-next branch - Nov_30_11_2020 Camera • Support RTSP streaming with RMS in Dunfell branch - REFPLTCAM-86 • Validate CVR use case in RPi3 with dunfell branch - REFPLTCAM-82 • Support Normal Thumbnail in RPi3 with Dunfell branch - REFPLTCAM-88 • Support Firmware upgrade in RPi3 with dunfell branch - REFPLTCAM-87 • Smart Home with Security Surveillance Video Streaming (Proof of Concept) ◦ Face detection ◦ Thumbnail support ◦ RTSP Streaming Video • Yocto 3.1 (dunfell) build framework support on rdk-next RPi RDK image builds NEW ◦ Supports generation of both media client and hybrid gateway generic images • Smart Home with Security Surveillance Video Streaming (Proof of Concept) ◦ Thumbnail Notification handling ◦ Picture-in-Picture video playback ◦ IOT device control application • RDK Services on x86 PC Emulator NEW ◦ Supports Controller UI ◦ Services: DeviceInfo,
1.8	31 Oct 2020	Broadband Yocto 3.1 Turris Omnia - Synchronizing from topic branches to mainstream branches • Synchronizing yocto 3.1 changes in meta-turris layer - REFPLTB-807 • Git tagged releases for Turris Omnia on rdk-next branch - Oct_30_10_2020 Camera • Validation of RDK-C use cases of CVR, Normal thumbnail and firmware upgrade in RPi-3B+ target. - REFPLTCAM-74 • CVR crash issue was fixed - REFPLTCAM-69 • Supported firmware upgrade with both ethernet and wifi Mac - REFPLTCAM-77 • CVR build issue was fixed - REFPLTCAM-76 Video • Firmware Control service on HYB and MC images • Wifi service enabled for HYB images • Yocto 3.1 Migration on rdk-next build - Phase 1 ◦ Parsing errors were resolved and RPi specific changes are merged ◦ Supporting Jenkins team to merge Comcast migration changes into rdk-next • meta-wpe layer removal - Supported all images including RefApp image where video and graphics issue fixed • RMF Streamer crash was fixed
1.7	30 Sept 2020	• Support rdk-generic-camera-image for RPi-3 target - REFPLTCAM-67 • Validate RMS Feature in RPi3 B+ - REFPLTCAM-75 • Upstream patches in `meta-rdk-camera` - REFPLTCAM-2 • After initial bootup RPi-0 target not up on reboot. - REFPLTCAM-71 • Graphics and Video rendering issue resolved on RPi for RDK Service integration - REFPLTV-597, REFPLTV-594 • Bluetooth RDK service enabled for both MediaClient and Hybrid Gateway - REFPLTV-610 • RDK Services on RPi Generic MediaClient • RDK Services on RPi Generic Hybrid Gateway • Yocto 3.1 Turris Omnia - Synchronizing from topic branches to mainstream branches - REFPLTB-808 • Git tagged releases for Turris Omnia on rdk-next branch - Sep_30_09_2020_RDKB_Gateway
1.6	31 Aug 2020	Updated Release Information, Release Identification for 2020 M8 Release Updated Features supported for this sprint and Community tickets addressed • Yocto 3.1 integration and validation for rdk-generic-camera-image - REFPLTCAM-31(REFPLTCAM-55,REFPLTCAM-56,REFPLTCAM-57,REFPLTCAM-60) • Telemetry with cron job support - REFPLTB-607 • RDKServices on Raspberypi 's Firebolt @ Media Client Image - REFPLTV-514 • Yocto-3.1 Turris-Omnia Opensync Integration with Plume NOC and MeshAgent Support - REFPLTB-750 • Git tagged releases for Turris Omnia on rdk-next branch - Aug_31_08_2020

1.5	31 Jul 2020	Updated Release Information, Release Identification for 2020 M7 Release Updated Features supported for this sprint and Community tickets addressed • Integrated SNMP module in RDKB stack in RPI - REFPLTB-714 • RDKB Emulator hal refactoring - REFPLTB-758 • Online / Offline status of connected devices on RDKB in R-Pi - REFPLTB-622 • Fixed high priority run-time/build time issues: Yocto 3.1 RDK MediaClient Generic Image - REFPLTV-474 • Validation and fixes for runtime issues for Yocto 3.1 RDK Hybrid Generic image - REFPLTV-473 • Integrate yocto3.1 for rdk-generic-camera-image - REFPLTCAM-31 • Yocto 3.1 dunfell RDKB build for Turris Omnia: Brought all RDKB feature that are available in rdk-next build - REFPLTB-566 • Git tagged release build(rdk-next) for Turris omnia - REFPLTB-680
1.4	30 Jun 2020	Updated Release Information, Release Identification for 2020 M6 Release Updated Features supported for this sprint and Community tickets addressed • Firmware upgrade through XCONF server in Turris Omnia Platform - REFPLTB-665 • Added RDKM logo support in UI page and corresponding syndication DM parameters also updated with respect to emulator - REFPLTB-623 • Added Firmware Upgrade with http protocol support in rpi platform - REFPLTB-659 • Supported Normal Thumbnail feature for RPI-0 Device - REFPLTCAM-15 • Validation and fixes for various runtime/build time failures for rdk-generic-mediaclient-image - REFPLTV-474
1.3	29 May 2020	Updated Release Information, Release Identification for 2020 M5 Release Updated Features supported for this sprint and Community tickets addressed • vc4graphics and v4l2 enabled for RDK Hybrid Thunder image on RPI platform to resolve MPEG TS streams playback issue - REFPLTV-433 • RDK Generic Hybrid image support on RPI platform from yocto 3.1 manifest - REFPLTV-473 • RDK Generic Mediaclient image support on RPI platform from yocto 3.1 fixing Issues - REFPLTV-474 • Yocto - 3.1 support in Turris Omnia Target - RDK Broadband generic gateway image - REFPLTB-566 • Implemented the hal-dhcpv4c api's for successfully fetching of Device.DHCPv4.Client.{i} data model tree - REFPLTB-635 • Supported Firmware Upgrade with XConf server for RDK-C - REFPLTCAM-21
1.2	30 Apr 2020	Updated Release Information, Release Identification for 2020 M4 Release Updated Features supported for this sprint and Community tickets addressed • Yocto-3.1 core minimal image support in Turris Omnia target (REFPLTB-564) • Yocto-3.1 RDK generic media client image support in R-Pi(REFPLTV-412) • EMS Refactored to RMS (REFPLTCAM-11 REFPLTCAM-18 REFPLTCAM-19 REFPLTCAM-20 and REFPLTCAM-2) • CVR Support in AWS cloud through gstreamer kvs sink (REFPLTCAM-10) • RDK Telemetry support in Emulator(REFPLTB-563)
1.1	31 Mar 2020	Updated Release Information, Release Identification for 2020 M3 Release Updated Features supported for this sprint and Community tickets addressed Updated Known Issues and Limitations for • Band Steering Support in RPI - RDKB (REFPLTB-432) • Bring WebPA support for Turris Omnia - RDKB (REFPLTB-550) • Continuous Video Recording (CVR) - RDKC (REFPLTCAM-10)
1.0	02 Mar 2020	Updated Release Information, Release Identification for 2020 M2 Release Updated Features supported for this sprint and Community tickets addressed • Super POD connectivity to <i>Plume</i> cloud server through Turris Omnia RDKB Gateway (REFPLTB-434) • Wi-Fi Hostapd dynamic Configuration - Turris Omnia (REFPLTB-539) • Emulator for Developer in rdk-next branch (REFPLTB-540 & REFPLTB-541) • IO connector plugin in R-Pi Thunder image (REFPLTV-393) • Community Tickets (REFPLTB-528 & REFPLTB-487)

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Introduction

This Release Notes document details for the delivery of version 2022 M6 for the RDK Reference Platform to the RDK Community

1. Release Feature Information
2. Software and Hardware requirements to build
3. Known limitations
4. Updated Platform Tickets

Release Information

Below is the list of release features supporting Turris Omnia, R-Pi, and Emulator platforms.

S. No.	Feature	Device	Profile	Tickets	Remarks
1	Clients are not getting internet at first boot in Turris-GW	Turris	RDK-B	 REFPLTB-1789 - Jira project doesn't exist or you don't have permission to view it.	
2	Add REJECT target for iptables	Turris	RDK-B	 REFPLTB-1801 - Jira project doesn't exist or you don't have permission to view it.	
3	Not able to access WebUI in RPI GW	RPI	RDK-B	 REFPLTB-1802 - Jira project doesn't exist or you don't have permission to view it.	
4	Not able to access WebUI in Turris GW	Turris	RDK-B	 REFPLTB-1803 - Jira project doesn't exist or you don't have permission to view it.	
5	Add mod_openssl and include_shell directive in lighttpd conf for RPI-GW	RPI	RDK-B	 REFPLTB-1807 - Jira project doesn't exist or you don't have permission to view it.	

6	[TDK][AUTO][TURRIS]Device.IP.Diagnostics.X_RDKCENTRAL-COM_PingTest.PartnerID returns value as comcast	Turris	RDK-B	 REFPLTB-1713 - Jira project doesn't exist or you don't have permission to view it.	
7	Adding fix as a patch for CcspWifiagent crash in RPI4 64-bit build	RPI	RDK-B	 REFPLTB-1811 - Jira project doesn't exist or you don't have permission to view it.	
8	Observing CcspWifiagent crash in RPI4 64-bit build	RPI	RDK-B	 REFPLTB-1808 - Jira project doesn't exist or you don't have permission to view it.	

9	Tagged dunfell builds for RDK Broadband	Turris, RPI	RDK-B	Tagged builds:  REFPLTB-1837 - Jira project doesn't exist or you don't have permission to view it. Sub tasks : turris-gw:  REFPLTB-1838 - Jira project doesn't exist or you don't have permission to view it. turris-extender:  REFPLTB-1839 - Jira project doesn't exist or you don't have permission to view it. RPI3-gw:  REFPLTB-1840 - Jira project doesn't exist or you don't have permission to view it. RPI4-64 bit gw:  REFPLTB-1841 - Jira project doesn't exist or you don't have permission to view it.
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9	libcamera	RPI	RDK-C	 REFPLTCAM-244 - Jira project doesn't exist or you don't have permission to view it.  REFPLTCAM-253 - Jira project doesn't exist or you don't have permission to view it.  REFPLTCAM-254 - Jira project doesn't exist or you don't have permission to view it.	
10	RPI 3 and RPI 4 UI not showing full screen	RPI3	RDK-V	 REFPLTV-1454 - Jira project doesn't exist or you don't have permission to view it.	
11	UI screen alignment is changing upon changing the Resolution on RPi device	RPI	RDK-V	 REFPLTV-1385 - Jira project doesn't exist or you don't have permission to view it.	
12	Continue on image generation for sagemcom, with meta-rdk-voice layer	RPI	RDK-V	 REFPLTV-1482 - Jira project doesn't exist or you don't have permission to view it.	
13	Opensourcing Mediaframework Emulator	Emulator	RDK-V	 BLDKCMF-41 - Jira project doesn't exist or you don't have permission to view it.	
14	RDK-V Dunfell Emulator Code push for meta-x-bspemulator layer	Emulator	RDK-V	 REFPLTV-1448 - Jira project doesn't exist or you don't have permission to view it.	

15	RDk-V Dunfell Emulator Code push for meta-rdk-ext, meta-X-video, meta-cmf layer	Emulator	RDk-V	 REFPLTV-1451 - Jira project doesn't exist or you don't have permission to view it.	
16	RDk-V Dunfell Emulator Code push for meta-rdk-restricted layer	Emulator	RDk-V	 REFPLTV-1450 - Jira project doesn't exist or you don't have permission to view it.	
17	RDk-V Dunfell Emulator Code push for meta-rdk layer	Emulator	RDk-V	 REFPLTV-1449 - Jira project doesn't exist or you don't have permission to view it.	
18	RDkServices: RDkShell- Device is not responding to any curl requests after enabling inactivity reporting	Rpi	RDk-V	 REFPLTV-1401 - Jira project doesn't exist or you don't have permission to view it.	

Hardware and Software Requirements

Hardware Requirements

Broadband

Supported software and hardware

- Preferred 2.4GHZ WIFI adapter for Emulator: Tenda 150Mbps Wireless PICO USB Adapter with RT5370 chipset (W311MI) (or) Preferred 2.4GHZ WIFI adapter for Emulator: TP-Link AC1200 Wireless Dual Band USB Adapter (Archer T4U)
- Preferred 5GHZ WIFI adapter for Emulator/RPI: TP-Link AC1200 Wireless Dual Band USB Adapter (Archer T4U)
- Preferred xfinity-wifi 2.4GHZ WIFI adapter for RPI: TP-LINK TL-WN823N 300Mbps Mini Wireless N USB Adapter
- New dongle - Ultra-fast 1300 (867+400) mbps wireless speed with 802.11ac
- Turris Omnia Target for Wi-Fi Extender functionality
- USB to Ethernet
- Desktop PCs
- 8 GB SD-Card

Video

- Raspberrypi 3 Model B+ - 1 No.
- Power Supply (Output: 5V 2A) - 1 No.
- HDMI Supported TV - 1 No.
- HDMI cable - 1 No.
- Micro SD Card - 1 No.
- Card Reader - 1 No.
- Keyboard - 1 No.

Camera

- Raspberrypi 3 Model B+ - 1 No.
- USB webcamera - 1No.
- Power Supply (Output: 5V 2A) - 1 No.

- HDMI Supported TV - 1 No.
- HDMI cable - 1 No.
- Micro SD Card - 1 No.
- Card Reader - 1 No.
- Keyboard - 1 No.

System Requirements

- [How to Build#SettinguptheHostEnvironment](#) - This Link provides the Software and System requirements for both Yocto 2.2 (Morty) and Yocto 3.1 (Dunfell) builds

Known Issues and Limitations

RDKB- Linux Kernel upgrade to 5.10 version for Turris Omnia

- failing to bring up 5GHz radio

Project Documentation

Below is the list of supporting documents that are part of the release

1	Build Instructions	Camera • RDK-C rdk-next Yocto 3.1 dunfell build for RaspberryPi Video • RDK-V rdk-next Yocto 3.1 dunfell build for RaspberryPi Broadband • Release (Dunfell) - RPI 3B/3B+ Model Reference Platform • General (Morty) - RDK-B RaspberryPi - Host SetUp and Build Instructions#BRaspberryPi-HostSetUpandBuildInstructions-BRaspberryPi-HostSetUpandBuildInstructions-YoctoBuildSteps • RPI 4B (dunfell) - RPI 4B Model Reference Platform • RPI 4B 64b(dunfell) - RPI 4B Model Reference Platform with 64bit Arch • RPI 4B Extender (dunfell) - RPI 4B Model Reference Platform: Extender build instructions • Turris Omnia Gateway - Turris Omnia RDK-B Gateway - Yocto 3.1(Dunfell) • Turris Omnia Extender - RDKB Extender Yocto 3.1 - Dunfell • Emulator (dunfell) - RDK-B Emulator Dunfell Build Instructions	The wiki links provided here give the Linux commands to setup Yocto Project build framework's workspace and to generate RDK images.
2	User Manual	Video Broadband • Release feature user manual - Broadband - 2022 - M9 ◦ Tagged builds ▪ September2022 tagged dunfell build for Rpi3 Gateway ▪ September2022 tagged dunfell build for Rpi4-64 bit ▪ September2022 tagged dunfell build for Turris-Omnia	The user manual consists of a procedure to test the particular feature also covers Environment setup, Executing the System, and Troubleshooting steps
3	System Test Plan Results	Video Broadband	This document contains multiple test cases and test results which are captured after test execution
4	Release Notes	RFP - Release Notes - 2022 - M9	Release Notes -This document

Technical Support contact

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