

RFP - Release Notes - 2020 - M9



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RDK Reference Platform (RFP)

Version: 1.7
30th September 2020

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Revision History

Release No.	Date	Revision Description
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 Plume 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)
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)
1.2	30 April 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)
1.3	29 May 2020	Updated Release Information, Release Identification for 2020 M5 Release Updated Features supported for this sprint and Community tickets addressed • <i>vc4graphics</i> and <i>v4l2</i> 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

1.4	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
1.5	31 July 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
1.6	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 Raspberrypi '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
1.7	30 Sep 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

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Introduction

This Release Notes document details on the delivery version 2020 M9 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 are the list of release features supporting Turris Omnia, R-Pi and Emulator platforms.

S. No	Feature	Device	Profile	Remarks	Tickets
1	RDK Services on Generic Media Client and Generic Media Hybrid gateway	R-Pi	RDK-V	- Resident App graphics UI not rendering - enable few of thunder Nano services - enable Bluetooth Package config on WPE Framework - A new recipe for thunder nano services - switcher App not displayed on RPi - no WAYLAND_DISPLAY variable required for WPE Framework - no Westeros service needed for RDK Service integration - RDK Services - no video rendered on RPi - controller UI not fully loaded due to OCDM.json syntax error - Bluetooth devices not listing in R-Pi - Bringing Switcher App as the default UI - Strategy to use builds without meta-wpe New Features Supported: - Bluetooth NEW - Wifi NEW - ResidentApp NEW - Cobalt NEW - HTMLApp NEW - LightningApp NEW - SearchandDiscoveryApp NEW - WebKit Browser NEW	REF PLT V-590 REF PLT V-592 REF PLT V-595 REF PLT V-596 REF PLT V-597 REF PLT V-598 REF PLT V-600 REF PLT V-603 REF PLT V-604 REF PLT V-610
2	Yocto 3.1 Turris Omnia - Synchronizing Yocto 3.1 changes from topic to mainstream branches	Turris-Omnia	RDKB	- Synchronizing yocto 3.1 changes in meta-turris layer - Sync yocto3.1 changes for meta-cmf-broadband	REF PLT B-807 REF PLT B-808
3	Supporting RDK-C on R-Pi 3B+	R-Pi	RDK-C	- Integrated rdk-generic-camera-image for RPI-3 target - Validated RDKC media server (RMS) functionality in RPI-3 target	REF PLT CAM-67 REF PLT CAM-75

4	Community Tickets	R-Pi	RDK-V	• regression on AAMP video playback • A change-set fails some critical services on nonroot user mode • HLS Playback error with missing GST plugin • Verification Regression on masking meta-wpe layer • Graphics issue on RefApp when masking meta-wpe layer	• REF PLT V-488 • REF PLT V-503 • REF PLT V-515 • REF PLT V-593 • REF PLT V-594
5	Community Tickets	R-Pi, Turris Omnia and Emulator	RDKB	• DHCP lease resync patch application for ext-src build • [TDK] [AUTO] [EMU] Device.WiFi.AccessPoint.1.SSIDReference and Device.WiFi.AccessPoint.2.SSIDReference are not performing a proper set • RPI-B Hostapd not starting on recent change 44638 • RPI-B Hostapd not starting on rdk-next with recent change 44673/44689 • RPI-B Hostapd not starting on rdk-next with recent change 44689	• REF PLT B-800 • REF PLT B-787 • REF PLT B-802 • REF PLT B-805 • REF PLT B-806
6	Community Tickets	R-Pi	RDK-C	• Moved Thumbnail and CVR patch file updates from 'meta-rdk-camera' layer into source code • Resolved Reboot issue in RPI-0 target	• REF PLT CAM-2 • REF PLT CAM-71

Hardware and Software Requirements

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

Known Issues and Limitations

RDK-V

RDK Services

- Wifi RDK service has functionality failure on Hybrid image
- OK button action not performed on Bluetooth remote

- UI on TV output is not displayed when the box without an Internet connection
- On-Screen console displaying on UI transitions

Project Documentation

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

1	User Manual	• RMS Feature validation in RPI-3 target • RDK Services on Raspberrypi ◦ Host Setup for Yocto 2.2 Morty build ◦ Supported RDK Services on Raspberrypi ◦ User Manual - RDK Services on RPi	The user manual consists of a procedure to test the particular feature also covers Environment setup, Executing the System and Troubleshooting steps
2	System Test Plan Results	• System Test Plan and Report - Camera - 2020 - M9 ◦ RMS_E-09874-01-01STP67.xlsx • System Test Plan and Report - RDK Video - 2020 - M9 ◦ RDK-services-mc-E-09874-01-01STP68.xls ◦ RDK-services-hybrid-E-09874-01-01STP69.xls	This document contains multiple test cases and test results which are captured after test execution
3	Release Notes	• RFP - Release Notes - 2020 - M9	Release Notes -This document

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