

RFP - Release Notes - 2020 - M4



Release Notes - 2020 - M4
RDK Reference Platform (RFP)

Version: 1.2
30th April 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 <ul style="list-style-type: none">• 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 <ul style="list-style-type: none">• 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 <ul style="list-style-type: none">• 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)

Contents

[Introduction](#)
[Release Information](#)
[Hardware and Software Requirements](#)
[Known Issues and Limitations](#)
[Project Documentation](#)
[Technical Support contact](#)

Introduction

This Release Notes document details on the delivery version 2020 M4 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 platform and Emulator.

S. No	Feature	Device	Profile	Remarks	Tickets
1	Yocto - 3.1 Core minimal Image support in Turris Omnia Target	Turris Omnia	RDKB	<ul style="list-style-type: none"> Minimal image is booted up on Turris Platform Ccsp components are not a part of minimal image 	REFPLTB-564
2	RDK Telemetry support in Emulator	Emulator - X86	RDKB	<ul style="list-style-type: none"> Telemetry is a feature used in RDK broadband Gateway devices to extract and upload specific error logs or event logs from the Gateway to the XCONF server. These logs are used to remotely monitor the Gateways in the field. The logs to be monitored and the frequency of capturing the logs can be configured from the Xconf server, in the form of a marker. Every Gateway is registered with the Xconf server. The Gateway executes "DCM script" on boot up. When the Gateway is connected to the server, it queries for the Configuration. Xconf server responds with the predefined markers which includes the information like the logs to be monitored, the log file name, polling frequency, etc. 	REFPLTB-563
3	Yocto-3.1 RDK generic media client image support in R-Pi	R-Pi	RDKV	<ul style="list-style-type: none"> Able to generate a first level version of rdk-generic-mediaclient-image like bringing up kernel, loading rootfs bootscreen etc. The current Yocto version used in RDK is updated from morty(2.2) to dunfell with added benefit of variety of features available in the latest oe-layers. 	REFPLTV-412
6	Community Tickets	R-Pi, Turris Omnia and Emulator	RDKB	<ul style="list-style-type: none"> [TDK]RPI 5GHZ SSID is not broadcasting intermittently [TDK][AUTO]Device.X_COMCAST-COM_GRE.Tunnel.1.Status is Up even if Device.X_COMCAST-COM_GRE.Tunnel.1.Enable is disabled SDK generation is not working properly in rdk-next [TDK][AUTO]Default values of SelfHeal parameters are zero and false for Emulator Compliance issues in opensync-vendor-rdk-turris Update Contributing.md in meta-turris and rdkb-turris-hal rdkcentral github repositories Unable to toggle value for Device.SelfHeal.X_RDKCENTRAL-COM_Enable [TDK][AUTO]Device.X_COMCAST-COM_GRE.Interface.1.Status is Up even if Device.X_COMCAST-COM_GRE.Interface.1.Enable is disabled Band Steering support using RSSI Threshold Unable to toggle value for Device.SelfHeal.X_RDKCENTRAL-COM_Enable 	REFPLTB-504 REFPLTB-491 REFPLTB-451 REFPLTB-580 BLDKCM-F-1 BLDKCM-F-14 REFPLTB-511 REFPLTB-490 REFPLTB-525 REFPLTB-527

7	Community Tickets	R-Pi	RDKV	<ul style="list-style-type: none"> Remove network services other than WPE from RDK stack Emulator E2E and MF scripts are getting timed out. Systeminfo method in Thunder plugin DeviceInfo getting stuck . WebRTC and MediaStream support on RDK-V Thunder Image Some .ts streams not playing with latest westeros. Remote keys are not working. Video overlapping issue. After exit from cobalt application, blank screen was displayed and Rpi get crashed. Screen capturing not working in latest RPI Thunder images. Thunder build failure. Remove wpebackend overriding from meta-cmf-raspberrypi 	REFPLTV-441 REFPLTV-435 REFPLTV-387 REFPLTV-455 REFPLTV-433 REFPLTV-443 REFPLTV-444 REFPLTV-445 REFPLTV-396 REFPLTV-440 REFPLTV-408
8	EMS Refactoring to RMS	R-Pi	RDKC	<ul style="list-style-type: none"> Solved buffer displaying issue in browser page after EMS refactoring. Solved Empty Pull stream configurations and webrtc status issue after EMS Refactoring Solved RDK mediastreamer binary not running issue after EMS Refactoring. Removed RMS component patch files in meta-rdk-camera layer and moved patch file updates into RMS source code. 	REFPLTC AM-11 REFPLTC AM-18 REFPLTC AM-19 REFPLTC AM-20 REFPLTC AM-2
9	CVR Support in AWS cloud through gstreamer kvs sink	R-Pi	RDKC	<ul style="list-style-type: none"> Stream capturing content into AWS server by using kvssink support. 	REFPLTC AM-10

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
- USB to Ethernet
- Desktop PCs
- 8 GB SD-Card

Known Issues and Limitations

Telemetry Support in Emulator:

- Telemetry Log upload in RDKB Emulator platform has been tested with http server only and not tftp server
- Spunk server is not used
- Currently, only 5 markers are supported

Yocto-3.1 RDK generic media client image support in R-Pi:

- Yocto3.1 rdk generic media client build has been generated successfully and yet to validate in R-Pi.

Continuous video recording (CVR) support in R-Pi:

1. CVR Support in AWS cloud through gstreamer kvs sink.

Project Documentation

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

1	High Level Design	<ul style="list-style-type: none">• High level design approach - BroadBand - 2020 - M4<ul style="list-style-type: none">• Telemetry support in RDKB Emulator - Design - 2020 M4• High level design approach - Video - 2020 - M4<ul style="list-style-type: none">• RDKV 4.0 Firmware Upgrade on RPI - Design - 2020 - M4• High level design approach - RDK Camera - 2020 - M4<ul style="list-style-type: none">• Continuous Video Recording (CVR) Support in R-Pi - RDK Camera - Design - 2020 - M4• RDK Media Streamer (RMS) Support in R-Pi - RDK Camera - Design - M4 - 2020	An high level design document which explains the design flow of each and every feature also covers Design Considerations, Architecture, Data Model, Limitations and Future Enhancements
2	User Manual	<ul style="list-style-type: none">• Release feature user manual - Broadband - 2020 - M4<ul style="list-style-type: none">• RDKB - Yocto 3.1 Migration for Turris-Omnia Reference platform - User manual - M4 - 2020• Telemetry Support in RDKB Emulator - User Manual - M4 - 2020• Release feature user manual - Video - 2020 - M4<ul style="list-style-type: none">• Yocto 3.1 Upgrade in RPI - RDK Video - Build Manual - 2020 - M4• Release feature user manual - Camera - 2020 - M4<ul style="list-style-type: none">• Continuos Video Recording (CVR) - RDK camera - User manual - 2020 - M4• RDK Media Streamer (RMS) - RDK Camera - User Manual - 2020 - M4	The user manual consists of procedure to test the particular feature also covers Environment setup, Executing the System and Trouble shooting steps
3	System Test Plan Results	<ul style="list-style-type: none">• System Test Plan and Report - Broadband - 2020 - M4<ul style="list-style-type: none">• Yokto3.1Migration-E-09874-01-01STP50v3.0.xls• Telemetry-E-09874-01-01STP41v3.0.xls• System Test Plan and Report - Camera - 2020 - M4<ul style="list-style-type: none">• RMS_E-09874-01-01STP48v2.0.xlsx• CVR_AWS_E-09874-01-01STP51v2.0.xlsx	This document contains multiple test cases and test results which are captured after test execution
4	Release Notes	<ul style="list-style-type: none">• RFP - Release Notes - 2020 - M4	Release Notes -This document
5	Demo Videos	<ul style="list-style-type: none">• Demo - RDK Camera Continuous Video Recording (CVR) Support in RPI - 2020 - M4	This document/Video explains the feature supported in video file format and explains use cases covered for the respective feature with set up needed

Technical Support contact

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