

RFP - Release Notes - 2020 - M6



Release Notes - 2020 - M6
RDK Reference Platform (RFP)

Version: 1.4
30th June 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 <i>hal-dhcpv4c</i> 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 - Yocto 3.1 hybrid thunder image bring up on RPI3 platform - REFPLTV-495
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1. Introduction

This Release Notes document details on the delivery version 2020 M6 for the RDK Reference Platform to the RDK Community

- Release Feature Information
- Software and Hardware requirements to build
- Known limitations
- Updated Platform Tickets

2. 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	Firmware upgrade through XCONF server	Turris Omnia	RDKB	The Firmware upgrade will upgrade higher or lower version of the current image for Turris-Omnia with the help of Xconf server and Local TFTP/HTTP server. - Integrate u-boot firmware utilities for turris omnia - Add firmware flashing script - Add swupdate service and utility script for firmware update	REFPLTB-665 Sub-tasks: REFPLTB-725 REFPLTB-726 REFPLTB-727

2	Yocto 3.1 Image Stabilization and Validation	Turris Omnia	RDKB	Stabilizing the yocto-3.1 image on Turris and Validating the functionalities supported. • Provided fix for WAN and LAN interface IP acquisition in Utopia. • Ensured Wireless client is able to connect both 2.4Ghz and 5Ghz AP. • WebUI is Enabled and accessed • All the Ccsp services are up and running • dmcli works well and retrieves the info from ccsp components	REFPLTB-566 REFPLTB-678 Sub-Tasks: REFPLTB-718 REFPLTB-719 REFPLTB-720 REFPLTB-721 REFPLTB-724
3	RDKM Logo upgradation in emulator	Emu	RDKB	Added RDKM logo support in UI page and corresponding syndication DM parameters also updated with respect to emulator. • Updated php files to support the RDKM logo in emu • Updated p-and-m (source-pc folder) to support the RDKM logo upgrade in emu • Updated setup script to upgrade the RDKM logo support in emu • Updated syscfg db file to upgrade the RDKM logo support in emu • Updated syndication partner id in device.properties via sysint-broadband in bsp-emu layer	REFPLTB-623 Sub-tasks: REFPLTB-627 REFPLTB-628 REFPLTB-629 REFPLTB-630 REFPLTB-632
4	Added Firmware Upgrade with http protocol support in R-Pi platform	R-Pi	RDKB	• Firmware Upgrade for RPI RDK Broadband devices using XCONF server & TFTP/HTTP protocol. • Downloaded firmware from local/public http server with support of http protocol. • Also modified the firmware script with support of both protocols. If user configured http protocol support in xconf UI, On that time firmware will be downloaded by http protocol else firmware will be downloaded by tftp protocol(By default,tftp protocol will be selected).	REFPLTB-659
5	Yocto-3.1Migration: Validation and fixes for various runtime/build time failures for rdk-generic-mediadclient-image	R-Pi	RDKV	• Fixed continuous reboot triggered by sysint component because of dsmgr crash. • bcm2835_alisa was not listed because of audio dtparam settings. • Resolved rdkmediaplayer crash issue caused by gcc 9.x compiler flags settings. • Fixed ssh key exchange error due to read-only-rootfs image feature. • Fixed appmanager launch issue due to incorrect library settings for dunfell builds. • New build errors are addressed because of the latest changes in packages provided by OE-layers, and upstreamed them to cmf.	REFPLTV-474
6	Normal Thumbnail feature support in RPI-0 Device.	R-Pi	RDKC	• Need to support Normal Thumbnail functionality for Rasperryypi-0.	REFPLTCAM-15

7	Community Tickets	R-Pi, Turris Omnia and Emulator	RDKB	- RPI-B Wifi Connection Not Working with change 39926 [TDK][AUTO][RPI] Default value of Device.WiFi.X_RDKCENTRAL-COM_Report.WifiClient.MacAddress is empty - wan-status sysevent not changing to "stopped" on RPI - Removing the wan cable and putting it back is not bringing erouter0 up - RDKB EMU TS_WIFIHAL_5GHzGetNeighboringWiFiDiagnosticResult2 Fail - Added notify component in rpi platform - snmpset gives genError [TDK][AUTO] Device.WiFi.SSID.2.SSID value is returned as "OutOfService" via snmp [TDK][AUTO]Unable to toggle Device.WiFi.AccessPoint.2.SSIDAdvertisementEnabled via snmp [TDK][AUTO] [RPI] Device.WiFi.SSID.5.Enable is not persistent after reboot [TDK][AUTO] [RPI]Unable to toggle the enable and disable parameter for WPS using dmcli and Webpa - build error caused by sqlite3-native [TDK][AUTO]Last Reboot Reason is not reported as factory-reset for Device.DeviceInfo.X_RDKCENTRAL-COM_LastRebootReason when Factory Reset is performed - CcspWifiSsp: Failed to connect to hostapd - wpa_ctrl_open: No such file or directory [Turris Omnia] Hidden SSID functionality is not working for Private network - Run opensync as systemd service - dnsmasq is not configured for providing IP lease over backhaul interfaces	REFPLTB-709 REF PLTB-710 REFPLTB-560 REFPLTB-162 REFPLTB-615 REFPLTB-708 REFPLTB-714 REFPLTB-512 REFPLTB-513 REFPLTB-493 REFPLTB-576 REFPLTB-722 REFPLTB-500 REFPLTB-681 REFPLTB-682 REFPLTB-625 REFPLTB-614
8	Community Tickets	R-Pi	RDKV	- TDK AAMP test case failure that no playing state change event observed issue fixed - Unable to create the latest RPI build - RPI-V AAMP Playback via rdkmediaplayer is broken. - Supporting for Emulator build	REFPLTV-465 REFPLTV-498 REFPLTV-488

3. 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

4. Known Issues and Limitations

Normal Thumbnail support in R-Pi:

- Can't able to validate RMS(RDK Media Streamer) and CVR(Continuous Video Recoding) features while validating Normal Thumbnail feature.

rdk-generic-mediaclient-image:

- appmanager is getting displayed after booting up the image but login prompt is not available in the background as usual. It is not showing up even after stopping appmanager.
- Certain services like dsmgr.service, netsrvmgr.service, and tr69hostif are crashing.
- rmfApp prompt is not getting displayed after playing video using launch/play command. So we need to hard close the video using Ctrl + C combination.

4. RDK mediaplayer is launched but it is not playing default videos.

5. Project Documentation

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

1	High Level Design	• High level design approach - BroadBand - 2020 - M6 ◦ RDKB RPI Firmware Upgrade with support of HTTP protocol - Design - 2020 M6 • High level design approach - RDK Camera - 2020 - M6 ◦ Normal Thumbnail in RPI - RDK Camera - Design - 2020 - M6	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	• Release feature user manual - Broadband - 2020 - M6 ◦ Firmware Upgrade with Support of HTTP Protocol & TFTP Protocol in RDKB RPI - Broadband - User Manual - 2020 - M6 ◦ RDKM Logo upgradation - RDKB EMU - User Manual - 2020 - M6 ◦ Yocto-3.1 Turris Image Stabilization - User Manual - 2020 - M6 ◦ Yocto 3.1 RDK generic media client image User Manual - 2020 - Video -M6 • Release feature user manual - Camera - 2020 - M6 ◦ Normal Thumbnail in RPI - RDK Camera - User Manual - 2020 - M6	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	• System Test Report - Broadband - 2020 - M6 • System Test Plan and Report - Camera - 2020 - M6 ◦ Thumbnail-E-09874-01-01STP60.xls	This document contains multiple test cases and test results which are captured after test execution
4	Release Notes	• RFP - Release Notes - 2020 - M6	Release Notes -This document
5	Demo Videos	• Demo - RDK Camera - 2020 - M6 ◦ Normal Thumbnail in RPI - RDK Camera - Demo - 2020 - M6	This document/Video explains the feature supported in video file format and explains use cases covered for the respective feature with set up needed

6. Technical Support contact

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