

RDK Services on RaspberryPi

- [Introduction](#)
- [RDK Images](#)
- [Open Issues in JIRA](#)

Introduction

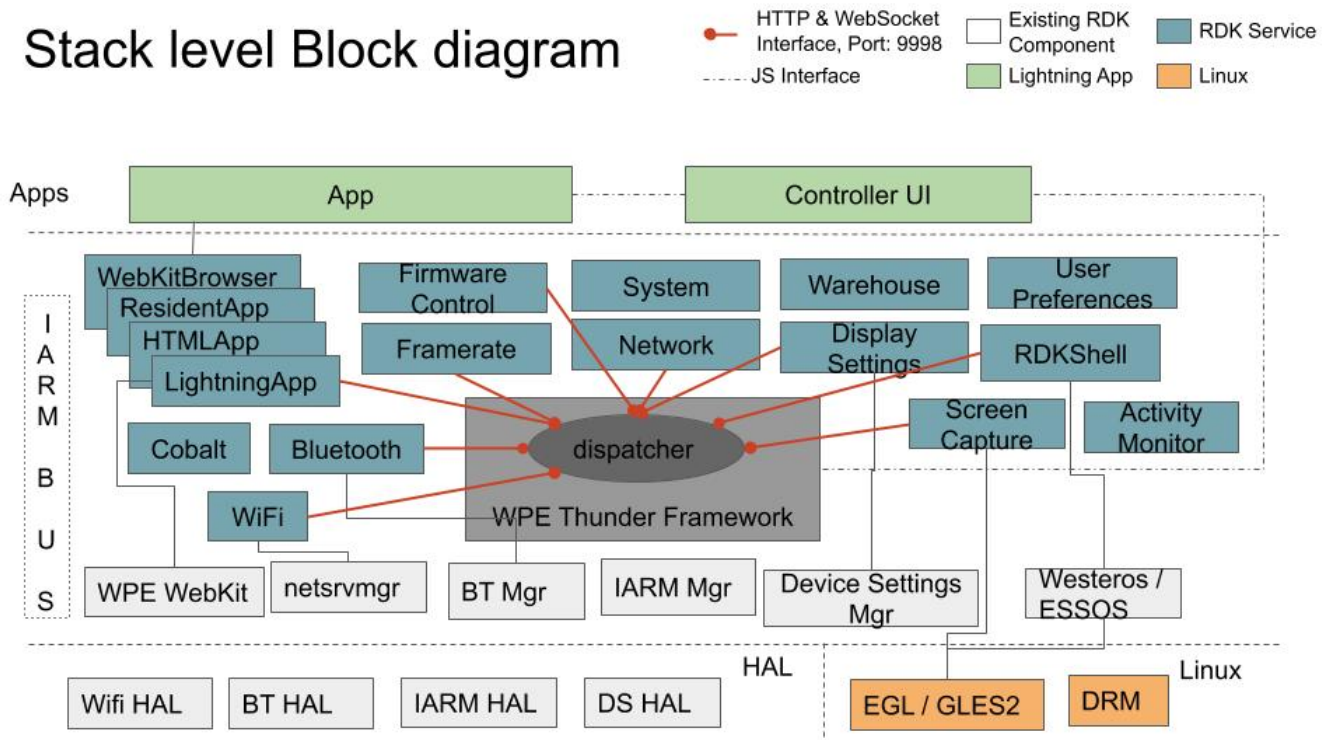
RDK Services are nothing but the RDK components are implemented as Thunder Nano Services and maintained in RDK Central's GitHub <https://github.com/rdkcentral/rdkservices>

Initially, this is started in the Comcast side and validated on the RPi reference platform and the Yocto recipe is maintained only in meta-rdk-video layer. Recently RDK services are made open-source and available in GitHub so, the recipe to avail this on CMF community (meta-cmf-video layer) as [rdkservices_git.bbappend](#) which points to GitHub's repository.

Currently, RDK services are excluded from Thunder Image builds and this depends with ServiceManager and WPE WebKit for (OpenCDM Implementation)

RDK UI Services works on top of [RDK Shell](#) which is an application management native component that provides the Wayland Composition. RDK Shell will be a small shared library that provides this feature. A sample binary is available to validate and also integrated as an RDK Service.

Architecture Wiki Page: [RDKShell](#)



For the Integration of RDK Services on Generic RDK image, below are the important components

- RDK Shell
- WPE's Thunder Framework
- RDK Services (Thunder Nano services developed by Comcast)
- WPE Framework's UI (for Controller UI)
- WebKit Browser Plugin (A Thunder Nano service for WPE WebKit Browser)
- RDK Reference App



blockdiagram_rdkservices.pdf

- [Introduction](#)
- [RDK Images](#)
- [Open Issues in JIRA](#)

RDK Images

Follow below link for build instructions

- [RDK-V \(Raspberry Pi\) Yocto Build Instructions - Morty](#)
- [RDK-V rdk-next Yocto 3.1 dunfell build for Raspberrypi](#)

Other pages



com.atlassian.sal.api.net.ResponseException: Could not parse json from Jira

Jira Number	Description	Assigned to	Priority	Comments
REFPLTV-794	RDKService: After auto reboot,multi-partition is not created for Firmware Upgrade	balaji vivek	Major	Issue is fixed. Changes to be merged. Target Date - 02 /18
REFPLTV-791	RDKService:AV decoding is not smooth in CNN application.	balaji vivek	Major	In progress. Target Date - 02/26
REFPLTV-785	RDKService: Bluetooth connection is not working.	balaji vivek	Major	In progress. Target Date - 02/26
REFPLTV-793	RDKService:Youtube is not launching after enabled cobalt plugin.	Moorthy Baskar	Major	In progress - Finding RCA. Target Date - 02/26

S. No.	Issue Description / log	Root Cause	Action done / Changes at	Remarks
1	ERROR: Layer 'cmf-raspberrypi' depends on layer 'wpe-layer', but this layer is not enabled in your configuration	meta-cmf-raspberrypi's layer has wpe layer dependency	Removed wpe dependency from meta-cmf-raspberrypi /conf/layer.conf Change-set: 43688	addressed from REFPLTV-521
2	ERROR: Nothing RPROVIDES 'gststreamer1.0-plugins-ugly' (but meta-rdk/recipes-core/packagegroups/packa gegroup-rdk-media-common.bb RDEPENDS on or otherwise requires it) ERROR: gststreamer1.0-plugins-ugly was skipped: because it has a restricted license not whitelisted in LICENSE_FLAGS_WHITELIST	RDk Media common package group has GStreamer ugly plugins run-time dependency	commercial Whitelist flag added for Gstreamer ugly plugin and mpg123. Also lame is not required for RDk build as it has a restricted license.	addressed from REFPLTV-518
3	ERROR: Nothing RPROVIDES 'gststreamer1.0-plugins-ugly-mpg123' (but meta-rdk-ext/recipes-extended/wpe-webkit/wpe-webkit_0.4.4.bb RDEPENDS on or otherwise requires it)	wpe-webkit has Gstreamer ugly plugins run-time dependency	Change-set: 43513	
4	build-raspberrypi-rdk-mc/tmp/work/cortexa7t2hf-neon-vfpv4-rdk-linux-gnueabi/wpe-webkit/0.4.4+gitAUTOINC+5f899bc2e0-r0/git/Source/WebCore/platform/graphics/cairo/CairoUtilities.cpp:46:22: fatal error: cairo-gl.h: No such file or directory #include <cairo-gl.h> ^ compilation terminated.	cairo bbappend from meta-rdk-ext is masked from meta-cmf-raspberrypi as meta-wpe has the same bbappend	meta-wpe 's cairo bbappend is masked for Non-Thunder images and meta-rdk-ext 's cairo bbappend is masked for Thunder images Change-set: 43722	addressed from REFPLTV-519
5	- Not able to get the ssh terminal once the image is booted - No way to edit RDk Services configuration file as the rootfs generated with read-only mode	bbappend files for RDk Images which are maintained in meta-cmf-raspberrypi layer are disabled the read-only-rootfs IMAGE Feature only under that bbappend scope so, if any new image bbappend introduced, the image generated with this feature.	removed read-only-rootfs feature globally for all RPI images Change-set: 43245	addressed from REFPLTV-517
6	No controller UI on web browser launched though the port 9998 enabled (confirmed through <i>netstat</i> command)	The binding address is not set for WPE Framework	+ WPEFRAMEWORK_BINDING_rpi = "0.0.0.0" Change-set : 43520	addressed from REFPLTV-520
7	RDk Shell distro feature to be enabled	RDk Shell distro feature includes RDkshell, wpeframework-ui and RDk reference app components into image	Enabled in raspberrypi-rdk-mc.conf file Change-set: 43690	addressed from REFPLTV-522
8	new manifest to avoid meta-wpe	meta-wpe layer is no more needed for RDk services	a new manifest created on master branch of http://code.rdkcentral.com/r/reference/manifests	addressed from REFPLTV-516
9	remove meta-wpe layer dependency in meta-cmf-raspberrypi layer		removed	addressed from REFPLTV-521

key summary type created assignee reporter priority status resolution resolved



Jira project doesn't exist or you don't have permission to view it.

[View these issues in Jira](#)