

2019-06-28 RDKC Meeting notes

Date

28 Jun 2019

Attendees

- [Glee Abraham](#)
- [Ajith James](#)
- [Revathy Elangovan](#)
- [Rajkumar Narayanan](#)

Goals

- **Dev Update**
- **Feature Testing**
- **Concerns / Blocking Points**
- **Future Plans**
- **Community, TDK Issues/Tickets**

Discussion items

Item	Who	Notes	JIRA Ticket	Target	Status
Yocto Migration + Camera Bringup	L&T: Rajkumar /Kapil	24 May 2019 Platform Team : • Generated core minimal image using the recipe rdk-geneirc-camera-img.bb • Analysis on RDK-C manifest and listed out the recipes need to be written and available ones • Planned to have validation using userland utilities like raspistil, raspivid etc • Also would like to valid the streaming use cases with gst-launch utilities with v4l2 src and glimagesinks etc RDK-C Team : • Working on the Yocto recipes for the SoC SDK with minimal boot core image with external toolchains • Suggesting for the streaming use cases for first validation along with basic features such as Webpa RDK-M Team : • Need to work along with Revathy on the meta layers for proposing the changes on recipes • Raj to come up with road-map plan for covering the features • As of now comcast JIRA is used for epic story ticket and in RDK wiki we shall have restricted page within the RDK-M and Comcast-RDK-C team 31 May 2019 Platform Team : • Able to perform a media playback using the captured camera content in the RDK-V media client image through an R-Pi -3B Target board ◦ Used gststreamer launch command : gst-launch-1.0 v4l2src ! glimagesink • Currently trying to bring up the camera in the R-Pi0 and comparing the driver differences between the R-Pi3B and R-Pi0 • Trying for the media playback using gst command in a week in R-pi0 • Will be syncing up with Revathy post this call RDK-M Team : • Platform team need to discuss on the RDK-C components and its features for R-Pi0 port and come with a road-map plan on the same • Need to target the release for Q-3 07 Jun 2019 Platform Team : • Able to bring up the camera in the R-Pi 0 Target • Able to perform a media playback using the captured camera content in the core minimal image through an R-Pi -0 Target board ◦ Used gststreamer launch command : gst-launch-1.0 v4l2src ! glimagesink • Explained comprehensive the list of available and non available yocto recipes for the components in the RDK-C Stack • Will be syncing up with Revathy post this call RDK-M Team : • Please prepare the yocto skeleton design approach for hosting the camera and soc specific recipes and get it approved by RDK-C team and Khem • Building from the comcast yocto repo for the core minimal image and deploying in the R-Pi Target • Shall target for Media streaming and Thumbnail features • Also follow up with Sundar on the open-sourcing of the RDK-C components • Platform team need to discuss on the RDK-C components and its features for R-Pi0 port and come with a road-map plan on the same • Need to target the release for Q-3 14 Jun 2019	• RDKC-5132	31 Jul 2019	In-Progress

		Platform Team : - Created separate configuration file for R-Pi Zero Target, which includes kernel configuration - Pushed the changes with respect to Configuration and Gstreamer plugins in the Comcast Jira https://ccp.sys.comcast.net/browse/RDKC-5173 - Build the core minimal image from Comcast gerrit repo along with the gstreamer components - Mapped RDK-C components with respect to features - Able to capture video using camera and displayed to the display panel - Explained with an analysis deck on the below items - Analysis on Yocto Recipes Availability and Non - Availability - RDK-Components vs feature mapping - RDK camera meta layers and recipes RDK-M Team : - Need to get confirmation from Vijay regarding the open sourcing of the EMS component and taking that as the media streaming use case - Please ask Vijay to join the next call 21 Jun 2019 Platform Team : - Started working on the recipe creation for the ems component - Finding the dependencies like sysapp which in turn has dependencies like ledmgr, buttonmgr. Would like to know still those are needed for r-pi port ? RDK-C Team : - Vijay : Those are with respect to xcam only we can exclude the syspp dependencies for R-Pi - Also we shall exclude the sdk dependencies by using the macro -DSDK_DISABLED - For R-Pi, you need to do an customization in the following two files for streaming to work <code>sources/thelib/include/api3rdparty/apiprotocol.h</code> <code>sources/thelib/src/api3rdparty/apiprotocol.cpp</code> - We can still use ems for mediastreaming for R-Pi as we shall be opensourcing shortly - Also it uses the light webrtc for streaming - Hope there shouldn't be any dependencies on soc/sdk side - Once the reference platform team creates the recipe for ems we shall be supporting further on the use case validation 28 Jun 2019 Platform Team : - Started working on the recipe creation for the ems component - Compiled the below modules of EMS component using cmake <code>- sources/common</code> <code>- sources/protocolmodules/echosample</code> <code>- 3rdparty/tinysql</code> - The below feature is now compiling and fixing the build errors <code>- 3rdparty/lua-dev</code> - Pushed the changes with respect to core minimal image in the 1906_sprint and got merged by Khem RDK-M Team : - Please ensure a release of core minimal image for the next sprint - Have a plan for features after ems component feature use case - Need to target the RDK-C on R-Pi in Q-3			

Action items

- ☐ [Rajkumar Narayanan](#) , need to come up with a feature road map plan for RDK-C port on R-Pi0