

2019-06-21 RDKC Meeting notes

Date

21 Jun 2019

Attendees

- [Ajith James](#)
- [Revathy Elangovan](#)
- [@Vijayanand dubey](#)
- [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	<p>24 May 2019</p> <p>Platform Team :</p> <ul style="list-style-type: none">• 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 <p>RDK-C Team :</p> <ul style="list-style-type: none">• 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 <p>RDK-M Team :</p> <ul style="list-style-type: none">• 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 <p>31 May 2019</p> <p>Platform Team :</p> <ul style="list-style-type: none">• 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<ul style="list-style-type: none">◦ 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 <p>RDK-M Team :</p> <ul style="list-style-type: none">• 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 <p>07 Jun 2019</p> <p>Platform Team :</p> <ul style="list-style-type: none">• Able to bring up the camera in the Ri-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<ul style="list-style-type: none">◦ 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 <p>RDK-M Team :</p> <ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• RDKC-5132	30 Jun 2019	In-Progress

	<p>14 Jun 2019</p> <p>Platform Team :</p> <ul style="list-style-type: none">• 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<ul style="list-style-type: none">◦ Analysis on Yocto Recipes Availability and Non - Availability◦ RDK-Components vs feature mapping◦ RDK camera meta layers and recipes <p>RDK-M Team :</p> <ul style="list-style-type: none">• 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 <p>21 Jun 2019</p> <p>Platform Team :</p> <ul style="list-style-type: none">• 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 ? <p>RDK-C Team :</p> <ul style="list-style-type: none">• 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<ul style="list-style-type: none">◦ <code>sources/thelb/include/api3rdparty/apiprotocol.h</code>◦ <code>sources/thelb/src/api3rdparty/apiprotocol.cpp</code>• W 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				

Action items

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