



RDK 2017 TECH SUMMIT

CCAD
1 Progress Drive
Horsham, PA 19044
July 18-20, 2017

Tentative Agenda – subject to change

DAY ONE – RDK Broadband (July 18, 2017)

SESSION	Time	PRESENTER	DESCRIPTION
RDK-B Architecture Overview	8:05 AM– 9:00 AM	Deepa Mukund, Intel	An introduction to RDK-B architecture and design philosophy
RDK-B Components Overview	9:00 AM– 10:00 AM	Vinayak Bhat, Infosys	A deeper dive into RDK-B components and features
RDK-B Yocto Integration	10:10 AM– 11:10 AM	Khem Raj, Comcast	Introduction to the Yocto project build system and how it works both conceptually and practically
Build Setup for Raspberry Pi	11:10 AM– 12:00 PM	Pritam Ghanghas, Cognizant	How to build, load and execute RDK-B image on the Raspberry Pi
HAL Requirements for RDK-B	1:00 PM– 2:00 PM	Vinayak Bhat, Infosys	This session describes various RDK-B HAL Layers (Wi-Fi, eCM, etc.)
Multicast Data Cache (MDC)	2:00 PM– 3:00 PM	Jeffrey Tyre & Dan Torbet, ARRIS	This Session details overall IP video delivery with the Multicast Data Cache (MDC) optimizations
RDK-B Local WEB GUI	3:10 PM– 4:10 PM	Vinayak Bhat, Infosys	This session describes WEB GUI functionality



DAY TWO – RDK Broadband (July 19, 2017)

SESSION	Time	PRESENTER	DESCRIPTION
Overview of RDK-B protocol agents and deep dive into SNMP PA & Tr69 PA	8:00 AM– 9:00 AM	Vinayak Bhat, Infosys	Details of how SNMP and TR069 protocol agents work. Includes exercise on adding new parameter to mapper file for SNMP
Understanding WebPA	9:00 AM– 10:00 AM	Weston Schmidt, Comcast	Detailed session on WebPA client and server modules
Telemetry	10:15 AM– 10:45 AM	Sarveswaran Nagarajan, RDKM	How the telemetry feature works and how the device state information is gathered in a real-time manner
LMLite	10:45 AM– 11:15 AM	Ajith James, RDKM	Overview of RDK-B Lmlite component and how it manages the host table entries
Utopia	11:15 AM– 12:00 PM	Vinayak Bhat, Infosys	Overview of Utopia component
Self-Healing	1:00 PM– 2:00 PM	Vinayak Bhat, Infosys	Understanding self-healing followed by a feature demonstration
Debugging / Triaging in RDK-B	2:00 PM– 3:00 PM	Arun Sunny, TATA ELXSI	Hands-on session on how to debug and triage real-time issues
TDK-B Overview and supported features	3:10 PM– 4:10 PM	Sugasini Velusamy, RDKM	This session describes RDK Test Development Kit and how to validate RDK features using TDK



DAY THREE – RDK Video (July 20, 2017)

SESSION	Time	PRESENTER	DESCRIPTION
Introduction to RDK-V	8:00 AM– 9:00 AM	Glee Abraham, RDKM	This session provides an introduction to the RDK-V and discusses its architecture and features
RDK Yocto Integration	9:00 AM– 10:00 AM	Khem Raj, Comcast	This session will cover an introduction to the Yocto project build system and how it works both conceptually and practically
Build setup for Raspberry-Pi	10:10 AM– 10:40 AM	Pritam Ghanghas, Cognizant	How to build and load the RDK image on Raspberry Pi
RDK Streaming Components and inter-process communication	10:40 AM– 11:20 AM	Ajith James, RDKM	This session gives an in-depth idea on RDK streaming components like RMF, streamer, TRM, QAMSource ,IP Video streaming and implementation details on device settings, iarmbus, storage-manager and service-manager, followed by detailed exercises
RDK Bluetooth and Wi-Fi feature	11:20 AM– 12:00 PM	Anthony Piro, Charter	Details on how the Bluetooth and Wi-Fi are integrated in RDK video devices followed by a demonstration



DAY THREE (ctd) – RDK Video (July 20, 2017)

Browser, WPE & running RMF as a Wayland Application	1:00 PM – 1:30 PM	Pritam Ghanghas, Cognizant	This session provides the implementation details on new RDK browser, WPE and RTRMF player followed by an exercise
Westeros	1:30 PM– 1:45 PM	Pritam Ghanghas, Cognizant	Details on how the Westeros Wayland compositor library enables applications to create one or more Wayland displays
PXScene	1:45 PM – 2:15 PM	Pritam Ghanghas, Cognizant	Details on how PXScene cross-platform UI apps are integrated in RDK followed by a hands-on exercise
RDK Containerization	2:15 PM– 2:45 PM	Barry Dilly, Espial	Details the RDK implementation of Linux containers via LXC and how RDK process are grouped into different containers
RDK CAS Hardening	2:45 PM– 3:10 PM	Barry Dilly, Espial	This session details more on RDK Security, DRM and Conditional access hardening with insights from real-world deployments
RDK Device Management	3:15 PM– 4:05 PM	Sandeep Nair, Comcast	Provides insights on RDK device management from a deployment perspective. This session delves into RDK feature control, Telemetry, XCONF, CDL, boot-up initialization, crash uploads and log uploads



DAY THREE (ctd) – RDK Video (July 20, 2017)

RDK Debugging & Triage Scenarios	4:10 PM– 4:45 PM	Amol Pise, TATA ELXSI	This session delves into the RDK debugging methodologies and triage process / best practices. It also talks about RDK logging schemes and how to leverage logs
TDK porting in Raspberry Pi & TDK exercise	4:45 PM– 5:30 PM	Sreelal Nampoorthiri, RDKM	Outlines the architecture, deployment and usage of the Test Design Kit (TDK) for component testing of RDK