



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



DAY TWO – RDK Broadband (July 19, 2017)

SESSION	PRESENTER	DESCRIPTION
Overview of RDK-B protocol agents and deep dive into SNMP PA & Tr69 PA	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	Weston Schmidt, Comcast	Detailed session on WebPA client and server modules followed by a hands-on exercise
Telemetry	Sarveswaran Nagarajan, RDKM	How the telemetry feature works and how the device state information is gathered in a real-time manner
Utopia	Vinayak Bhat, Infosys	Overview of Utopia component
Self-Healing	Vinayak Bhat, Infosys	Understanding self-healing followed by a feature demonstration
LMLite	Ajith James, RDKM	Overview of RDK-B Lmlite component and how it manages the host table entries
Debugging / Triaging in RDK-B	Arun Sunny, TATA ELXSI	Hands-on session on how to debug and triage real-time issues
TDK-B Overview and supported features	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	PRESENTER	DESCRIPTION
Introduction to RDK-V	Glee Abraham, RDKM	This session provides an introduction to the RDK-V and discusses its architecture and features
RDK Yocto Integration	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	Pritam Ghanghas, Cognizant	How to build and load the RDK image on Raspberry Pi
RDK Streaming Components and inter-process communication	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	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	Pritam Ghanghas, Cognizant	This session provides the implementation details on new RDK browser, WPE and RTRMF player followed by an exercise
Westeros	Pritam Ghanghas, Cognizant	Details on how the Westeros Wayland compositor library enables applications to create one or more Wayland displays
PXScene	Pritam Ghanghas, Cognizant	Details on how PXScene cross-platform UI apps are integrated in RDK followed by a hands-on exercise
RDK Containerization	Barry Dilly, Espial	Details the RDK implementation of Linux containers via LXC and how RDK process are grouped into different containers
RDK CAS Hardening	Barry Dilly, Espial	This session details more on RDK Security, DRM and Conditional access hardening with insights from real-world deployments
RDK Device Management	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	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	Sreelal Nampoorthiri, RDKM	Outlines the architecture, deployment and usage of the Test Design Kit (TDK) for component testing of RDK