



# 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)**

<b>SESSION</b>	<b>PRESENTER</b>	<b>DESCRIPTION</b>
RDK-B Architecture Overview	TBD, RDKM	An introduction to RDK-B architecture and design philosophy
RDK-B Components Overview	Vinayak Bhat, RDKM	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	TBD, Cognizant	How to build, load and execute RDK-B image on the Raspberry Pi
HAL Requirements for RDK-B	TBD	This session describes various RDK-B HAL Layers (Wi-Fi, eCM, etc.)
MDC	Jeffrey Tyre & Dan Torbet, Arris	This Session details overall IP video delivery with the MDC optimizations
RDK-B Local WEB GUI	Vinayak Bhat, RDKM	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, RDKM	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	Vinayak Bhat, RDKM	How the telemetry feature works and how the device state information is gathered in a real-time manner
Utopia	Vinayak Bhat, RDKM	Overview of Utopia component
Self-Healing	Vinayak Bhat, RDKM	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	TBD, 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	TBD, Cognizant	How to build and load the RDK image on Raspberry Pi
RDK Streaming Components	TBD, RDKM	This session gives an in-depth idea on RDK streaming components like RMF, streamer, TRM, QAMSource and IP Video streaming
RDK device management and inter-process communication	Ajith James, RDKM	This session covers 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)**

RDK Containerization	TBD, Espial	Details the RDK implementation of Linux containers via LXC and how RDK process are grouped into different containers
RDK CAS Hardening	TBD, Espial	This session details more on RDK Security, DRM and Conditional access hardening with insights from real-world deployments
Browser, WPE & running RMF as a Wayland Application	TBD	This session provides the implementation details on new RDK browser, WPE and RTRMF player followed by an exercise
Westeros	TBD	Details on how the Westeros Wayland compositor library enables applications to create one or more Wayland displays
PXScene	TBD	Details on how PXScene cross-platform UI apps are integrated in RDK followed by a hands-on exercise
RDK Debugging & Triage Scenarios	TBD, 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