



RDK 2025 TECH SUMMIT



Hilton London Syon Park
Park Road, Isleworth, TW8 8JF
United Kingdom

Agenda

(topics and speakers subject to change)

Topic	Tuesday, May 6 Speaker(s)	Time
Networking	Networking and demos open	08:00 - 08:30
Welcome	Glee Abraham , <i>Head of Technology, RDK Management</i> Jason Briggs , <i>President and General Manager, RDK Management</i>	08:30 - 08:45
Keynote	Paul Clarke , <i>Managing Director, Global Devices Software, Comcast</i> Paul Clarke will present an update on progress for key initiatives since the 2024 Global Summit. In addition to reporting on making open development a reality with RDKE, Paul will touch on collaboration through working groups and joint development tiger teams, well defined inter-layer interfaces accompanied with certification suites, and standardized app integrations.	08:45 - 09:15
Next-Gen Wi-Fi Solutions for RDK		
RDK Mesh Evolution: EasyMesh Integration & Roadmap	José Ramon Diaz Martínez , <i>Director, Solution Architecture, RDK Management</i> Soumya Munshi , <i>Director, Software Engineering, Comcast</i> Tucker Polomik , <i>Lead Software Architect, CableLabs</i> Praveen Kumar Venkatachalapathy , <i>Solution Architect, Deutsche Telekom</i> This session will cover the latest EasyMesh 6.x advancements within RDK, including mesh topology architecture and 1905.1-assisted optimizations for seamless wireless and wired backhaul. Our presenters will discuss the RDK Mesh roadmap, WFA certification and testing, and explore Wi-Fi Sensing in Mesh, unlocking new possibilities for home intelligence and automation.	09:15 - 10:00
Automating Wi-Fi Validation with a Unified Test Suite	Jakob Casamassima , <i>Software Engineer, Comcast</i> Viviane Cordeiro da Silva , <i>Principal Engineer, Sky</i> Soumya Munshi , <i>Director, Software Engineering, Comcast</i> This session will provide insights into the Unified Wi-Fi Test Suite architecture, designed to automate validation of Wi-Fi features across diverse RDK deployments. Test coverage, the ability to simulate client devices, and integration with a one Wi-Fi solution and Mesh repositories for continuous testing and validation will be addressed.	10:00 - 10:30
Break	Networking and demos open	10:30 - 11:00

Topic	Tuesday, May 6 Speaker(s)	Time
Firebolt: Standardizing App Development and Delivery		
Firebolt App Lifecycle: Streamlining Performance and Developer Experience	Bart Catrysse , <i>Lead Architect, STB Software, Liberty Global</i> Jeremy LaCivita , <i>Director, Apps Platform Product Management, Comcast</i> Yuri Pasquali , <i>Head of Product Platform Architecture, Sky</i> The Firebolt Lifecycle working group will report on the updated App Lifecycle model, which has been designed to improve app performance and resource usage. Hear how the model will add support for native apps, app hibernation, and reduce the Firebolt API surface needed by W3C app developers allowing them to focus on business value, not technical integration. This session will walk through the new functionality and give updates on the Firebolt roadmap.	11:00 - 11:30
Firebolt Connect Automation: Cloud-based Testing for Accelerated App Delivery	Damian Danytko , <i>Engineering Manager, Application Runtimes, RDK Management</i> Arthur Gebicz , <i>Software Developer, RDK Management</i> Michał Pogoda-Rosikoń , <i>Founder, bards.ai</i> This session provides an in-depth exploration of Firebolt Connect Automation's architecture and technical capabilities, showcasing a cloud-based solution for end-to-end app testing on set-top boxes without additional hardware requirements. Learn about the innovative systems design, modular test case creation using ready-to-use building blocks, and AI-driven test development approaches that streamline validation and accelerate app delivery timelines.	11:30 - 12:00
Infosys AppStore Integrating RDK's Firebolt Connect	Ronald Auwens , <i>Director Video UI & Applications Development, Infosys</i> Klaas Jan Koopman , <i>Director Backoffice Development, Infosys</i> This presentation highlights how the new Infosys AppStore streamlines app deployment, updates, and lifecycle management across diverse TV ecosystems. Discover its integration with Firebolt Connect, and how this synergy allows developers and operators to deliver outstanding user experiences while enhancing workflow efficiency.	12:00 - 12:30
Lunch	Networking and demos open	12:30 - 13:30
Evolving the RDK Build Framework: Integration, Modularity and DevOps		
Open Source Integration Excellence: The Power of Standardization	Sandeep Nair , <i>Senior Director Software Dev & Embedded Engineering, Comcast</i> This session examines a strategic approach to overcoming legacy Open Source integration challenges. Learn how standardized frameworks, resource optimization, and upstream alignment eliminate fragmentation and simplify upgrades. Discover how these practices reduce duplication, enhance cross-hardware performance, and leverage community partnerships to accelerate innovation.	13:30 - 14:00
How RDK's New "Stack Layering Support Module" Simplifies the Build and Deployment Process	Sreejith Ravi , <i>Principal Engineer, Sky</i> An improved modular approach—the Stack Layering Support Module—is designed to seamlessly integrate prebuilt packages with source builds in RDK's Yocto environment. See how this modular approach transforms stack layering to enable more flexible, efficient build and deployment processes for RDK Video development.	14:00 - 14:30
RDKM DevOps Evolution: Streamlined GitHub Workflows	Stephen Barrett , <i>Architect, Technology Operations & Engineering, RDK Management</i> Simon Chung , <i>Principal Engineer, DevOps & Build Tools, RDK Management</i> Get an overview of RDKM DevOps practices with a focus on RDKCentral GitHub workflows. The presenters will address repository metadata, the RDK repository model and branching strategy, and new GitHub Actions workflows for RDK, along with testing, compliance and code scanning.	14:30 - 15:00
Break	Networking and demos open	15:00 - 15:30

Topic	Tuesday, May 6 Speaker(s)	Time
Strengthening the RDK Ecosystem: From Connectivity to Deployment		
Enhancing Fixed Wireless Access Home Gateways: TR-181, IPv6, and 6 GHz Optimization	Biju Thomas M , <i>Head, RDK Competency, Tata Elxsi</i> Poonam Mishra , <i>Director of Engineering, Qualcomm</i> Get an in-depth look at key enablers for FWA broadband gateways, including TR-181 data models for device management, stateless IPv6 for scalable networking, and Automated Frequency Control (AFC) for optimized 6 GHz spectrum utilization. We will discuss implementation challenges, best practices, and real-world deployment strategies to enhance connectivity, security, and performance in wireless broadband networks.	15:30 - 16:00
Matter on RDK Devices	Thomas Lea , <i>Distinguished Engineer, Comcast</i> Matter is a universal IPv6-based protocol enabling seamless smart home connectivity across Wi-Fi, Thread, or Ethernet. Residential gateways and entertainment devices play crucial roles in enhancing this connectivity and accelerating IoT adoption. This session covers benefits, implementation challenges, and introduces a new RDK IoT component for easier Matter integration.	16:00 - 16:30
Irdeto's Journey with RDK Integration and Platform Readiness	Keisham Rishikumar Singh , <i>Senior System Architect, Irdeto</i> Irdeto will share their key learnings from integrating RDK solutions and tasks to prepare for deployment. Discover insights on migration, security and provisioning, authentication, premium app integration, analytics platform and key areas that can benefit from community standardization.	16:30 - 17:00
Wrap up	Glee Abraham , <i>Head of Technology, RDK Management</i>	17:00 - 17:10
Reception	Networking and Demos open	17:10 - 18:00

Topic	Wednesday, May 7 Speaker(s)	Time
Networking	Networking and demos open	08:00 - 09:00
Entertainments Insights		
Update on the Evolution of Video Platform	Yuri Pasquali , <i>Head of Product Platform Architecture, Sky</i> Anil Ravuru , <i>Executive Director, Software Dev & Engineering, Comcast</i> The day begins with a review of changes in the last year to the manner in which the platform is developed, built, packaged and deployed. The presenters will also provide an update on testing the platform along with the overall architecture.	09:00 - 09:30
Next-Generation Visual Experiences: RDK TV Platform Enhancements & Services	Praveen Appachanda , <i>Head of Software New Video Product, Sky</i> Deekshith Devadas , <i>Principal Embedded Software Engineer, Sky</i> This session explores the latest RDK TV platform advancements featuring premium picture quality enhancements (Filmmaker Mode, Dolby Vision Game Mode, Enhanced Vivid Mode), advanced HDMI capabilities (Auto Low Latency Mode, Dual Playback Support), and new Thunder plugins for AVOutput & AVInput integration. Join us to discover how these technologies deliver superior viewing experiences and streamlined device integration for next-generation products.	09:30 - 10:00

Topic	Wednesday, May 7 Speaker(s)	Time
Application Infrastructure Services for RDK Entertainment Platforms	Sathishkumar Deena Kirupakaran, Senior Principal Architect, Comcast Timothy Dibben, Senior Architect, Comcast Learn about the new Thunder Plugins which have been designed to manage application infrastructure across all RDK Video platforms. The presenters will cover application packaging, installation, and launch processes, with support for multiple devices and platforms. The session also showcases key Thunder Managers and how they orchestrate a seamless streaming app experience.	10:00 - 10:30
Break	Networking and demos open	10:30 - 11:00
RDK-B Device Enablement: Platforms, Partners, and Standards		
The Next Generation RDK-B Reference Platform	Sundar Subramanian, Head of Broadband Engineering, RDK Management Learn about the transition from Raspberry Pi to Banana Pi as the new RDK-B reference platform. Discover technical benefits and key features of the new platform, and plans to support white-label devices in future.	11:00 - 11:30
Deutsche Telekom Next-Gen GW: A Collaborative Journey	Alex Ball, Director of RDK-B Development, Deutsche Telekom JC Kuo, Manager, Customer Support Team, Airoha Carlos Martin, Principal Wireless Engineer, MediaTek The presenters will showcase the collaborative engineering efforts on next-gen DT GW (a multiWAN device: ethWAN, xDSL and GPON with Wi-Fi 7 support). New SoC on-board, platform and Wi-Fi bring-up into RDKB will also be highlighted.	11:30 - 12:10
RDKM Device Compliance	Glee Abraham, Head of Technology, RDK Management Ramakrishnan Thangamani, Tech Ops & Engineering Lead, RDK Management RDKM leaders will provide an early look at the RDKM Device Compliance Program, focusing on its goals, approach, and benefits.	12:10 - 12:30
Lunch	Networking and demos open	12:30 - 13:30
Enabling Seamless Experiences & Vendor Assurance		
Advancements in WPE Graphics Architecture, Performance & Roadmap	Özgür Deveci, Technical Manager, Software Dev & Engineering, Comcast Miguel Gomez, Webkit Developer, Igalia An overview of key improvements in WPE, including the adoption of ANGLE for WebGL2 rendering and the transition from Cairo to Skia for 2D graphics will be covered. A pre-recorded showcase will highlight new WPE features like WebAssembly and Amazon Luna support, followed by a roadmap update for WPEWebKit.	13:30 - 14:00
UltraFast App Switching: Web Application Performance and Resource Management	Aziz Bohoudi, VP Entertainment Platforms, Infosys Wojciech Lazarski, Director CPE Development, Infosys In this session, explore Infosys' approach to rapid web application switching using the memcr tool within WPE. This session reveals a method for minimizing application load times by intelligently managing system resources like A/V decoders and graphical assets. Learn how technical challenges are being addressed and means of pushing the boundaries of web application performance through advanced resource optimization techniques.	14:00 - 14:30

Topic	Wednesday, May 7 Speaker(s)	Time
RDK-E Vendor Test Suite: Ensuring Vendor Reliability and Trust	Shanoj Baby , <i>Head of Department, Global Services, Sky</i> Rajeev Balakrishnan , <i>Technical Program Manager, Sky</i> Sreenivasa Reddy Rayapuram , <i>Team Lead, Global Devices, Sky</i> Learn about the Vendor Test Suite (VTS), a comprehensive testing framework designed to validate the vendor layer for RDK-E platforms. VTS offers a structured, multi-level testing approach ranging from L1 (parameter testing) to L4 (comprehensive system-level testing), ensuring end-to-end reliability and seamless integration. Its modular architecture provides robust certification, functionality validation, stress testing, and compatibility assurance for vendors, integrators, and developers alike.	14:30 - 15:00
Break	Networking and demos open	15:00 - 15:30
Strengthening the RDK Ecosystem: Security, App Frameworks & AI Readiness		
RDK Device Cybersecurity Update	Venugopal Naik , <i>Director, Software Development & Engineering, Comcast</i> This session will cover contributions being made to improve cybersecurity in the RDK ecosystem. Topics will include the current threat landscape, cybersecurity roadmap, collaborative efforts, and community contributions. Technical areas including Access Controls, AppArmor, Development Tools, Certificate Management (Cert Selector), Secure Storage, and Collaborating with the community on CVE patching will be discussed.	15:30 - 16:00
Framework for the Future: Panel on Standardizing Broadband App Integration in RDK	Kartik Gohil , <i>Software/System Architect, Sky (moderator)</i> Russell Leake , <i>Executive Director Architecture, Comcast</i> Óscar Leal , <i>Product Architect Home Connectivity Services, Vodafone</i> Rahul Mehra , <i>CTO, Consult Red</i> Matthew Stanger , <i>Director, Software Development, T-Mobile US</i> This panel will explore operator requirements for a unified Broadband App integration framework in RDK, focusing on standardization, scalability, and interoperability. Experts will discuss key technical and business considerations shaping this initiative.	16:00 - 17:00
Introducing X5: AI-Enabled Reference Platform for RDK Video	Ganesh Achuthan , <i>VP Software Engineering, Amlogic</i> Explore the new Amlogic S905X5 STB reference platform bringing advanced AI and edge computing capabilities, highlighting real-world use cases to RDK Video. Learn how this collaborative and open RDK reference device can accelerate your video platform innovation.	17:00 - 17:15
Wrap up	Glee Abraham , <i>Head of Technology, RDKM</i>	17:15– 17:30