BlackBerry | QNX

TECHFORUM India, 2023

Wednesday, March 29, 2023 | 9:00 – 16:45 IST

The Leela Palace Bengaluru | #23 HAL Airport Road | Bengaluru - 560008

09:00 – 10:00	Breakfast	EN
10:00 – 10:05	Welcome Address	EN
10:05 – 10:35	BlackBerry® IoT Business Update & Strategy	EN
10:35 – 11:05	The Digital Cockpit - Learn How BlackBerry® QNX® Supports Virtualization, Android and the Next Generation of Mixed-Criticality Embedded Devices	EN
11:05 – 11:35	The Industrial Software Revolution and Functional Safety – Designing with QNX Safety Products	EN
11:35 – 11:55	MICROSAR Adaptive as ASIL-B on QNX - Vector Informatik India Pvt. Ltd	EN
11:55 – 13:30	LUNCH	EN
13:30 – 14:00	Software-Defined Vehicle - FEV	EN
14:00 – 14:30	Reducing Data Complexity to Enable Innovative Services and Solutions – BlackBerry® IVY™	EN
14:30 – 15:00	Better Sound, Less Hardware. Improving Vehicle Audio User Experience – QNX Acoustics	EN
15:00 – 15:20	BREAK	EN
15:20 – 15:40	Develop, Deploy and Test Mission-Critical Applications with Qt - Qt	EN
15:40 – 16:10	Building Your Next-Generation Products with QNX Cloud Enablement	EN
16:10 – 16:40	From Automotive to Industry 4.0: Learn How QNX Safety Products Support India's Technology Movement	EN
16:40 – 16:45	Conference Close	EN

*Agenda subject to change

BlackBerry QNX Presentations

The Digital Cockpit - Learn How BlackBerry QNX Supports Virtualization, Android and the Next Generation of Mixed-Criticality Embedded Devices

Virtual machines (VM) have become a fixture of many embedded systems thanks to their flexibility and cost-effectiveness. However, running multiple operating systems on the same hardware requires collaboration from many different groups. This session discusses the latest developments in the virtualization of Android, Linux, and QNX operating systems with a focus on graphics sharing, audio sharing, and the abstraction of vehicle interfaces with the latest Android version. It also looks at the foundational parts of the QNX solution: the QNX® Hypervisor for Safety and its safety-certified VirtIO framework. The session includes a short video of a working digital cockpit using Google's Android 'trout' configuration.

The Industrial Software Revolution and Functional Safety – Designing with QNX Safety Products

The industrial marketplace is poised for a software revolution thanks to the convergence of several software advancements including high-performance computing, omnipresent automation, and artificial intelligence. Functionally safe systems that require mixed criticality environments are at the heart of this software revolution. The QNX OS for Safety and the QNX Hypervisor for Safety along with QNX functional safety expertise, training, and consulting provide a solid foundation for these critical embedded systems. In this session, we discuss the importance of functional safety, the use cases that drive mixed criticality requirements, and how functional safety and mixed-criticality are driving modern industrial software architectures.

Reducing Data Complexity to Enable Innovative Services and Solutions – BlackBerry IVY

Connected vehicles and their ability to share data are the foundation of many ongoing advancements in the automotive industry, notably self-driving cars. BlackBerry IVY is a cloud-connected intelligent platform that gives automakers and their suppliers a reliable and secure way to consistently access and process vehicle sensor data as well as the ability to extend the capabilities of the software-defined car. In this session we unpack BlackBerry IVY ability to handle large amounts of data at the edge and how automakers can extract rich data insights to enable advanced customer features while cutting vehicle data transmission costs.

Better Sound, Less Hardware. Improving Vehicle Audio User Experience – QNX Acoustics

A sophisticated automotive acoustic user experience is becoming a defining characteristic of vehicle ownership that enhances automaker brand loyalty and differentiation. But deploying end-user audio features of consistently high quality is complex. It involves defining, testing, optimizing, and coordinating between multiple vendors sourcing independent components such as transducers, wire harnesses, amplifiers, DSPs, source units, and software blocks. The QNX Acoustics Management Platform® (AMP) is a holistic audio solution that simplifies the orchestration, implementation, and fine-tuning of multiple independent audio inputs and sources. This session delves into how this single platform produces the high-quality audio user experience automakers are looking for while also reducing hardware and software complexity and BOM costs.

BlackBerry QNX Presentations

Building Your Next Generation Products with QNX Cloud Enablement

In this session we will look at how Embedded Systems Software Engineering teams can now use the QNX® Neutrino® Real-Time Operating System (RTOS) and the QNX® OS for Safety, in the cloud with bit parity, to improve efficiencies and reduce time-to-market for new functionality. Mission-critical system development teams in industries ranging from automotive and aerospace to medical devices, industrial controls, and others can cut down their embedded software development time significantly, while ensuring reliability through testing, verification, and validation with environmental parity and along with the scalability afforded by the cloud.

From Automotive to Industry 4.0: Learn How QNX Safety Products Support India's Technology Movement

The future of technology is being shaped by software. With the increasing complexity and interconnectedness of embedded systems, various industries, including medical devices, industrial automation, robotics, and rail, are undergoing significant transformations. This session is designed for professionals who want to stay ahead of the curve. You will gain valuable insights into how the robust foundational software from BlackBerry QNX is supporting mission-critical applications and enabling the development of next-generation technologies. You will learn how BlackBerry QNX solutions can help you achieve cost savings, improve efficiency, prioritize safety, and enhance overall performance. Join us to discover why BlackBerry QNX delivers the preferred operating systems for customers in these industries. Get ready to immerse yourself in a comprehensive overview of the software-defined future.

Partner Presentations

MICROSAR Adaptive as ASIL-B on QNX

Basavaraj Patil, Product Line Manager, Vector Informatik India Pvt. Ltd.

MICROSAR Adaptive is the first Adaptive AUTOSAR stack to have reached ASIL-B certification on QNX.
We will give a short introduction to Adaptive AUTOSAR using our MICROSAR Adaptive product, a glimpse on ongoing efforts in our fail-safe considerations and a report on the technical cooperation with BlackBerry, which helped to reach our common goals and assures satisfaction of mutual customers on a daily basis.

Software-Defined Vehicle

Vikrant Bhangey, Practice Head-E Cockpit, FEV

The transition to Software-Defined Vehicles and reducing hardware complexity by running multiple vehicle functions on centralized HPC enabled by Hypervisor technology.

Sachin Gole, Software-Defined Vehicle Lead, FEV

Develop, Deploy and Test Mission-Critical UI's with Qt & QNX - Qt

Prashanth Gopal, Pre-Sales Engineer Qt

Qt for QNX is the best combination to make your software more robust, safe, and secure with modern UI/UX solution. Qt helps you to build safe critical UI's leveraging QNX partition system and is pre-certified for Automotive, Medical, Railways and Industry safety standards.

Presenters

John Wall

Senior Vice President and Head of BlackBerry QNX

As senior vice president and head of BlackBerry QNX, John Wall is responsible for the direction and overall activities of the company. Mr. Wall oversees the planning, design, and development of BlackBerry QNX's products, and the direction of its engineering services programs, including design consulting and custom engineering, to support BlackBerry QNX customers in bringing their products to market. Mr. Wall has been an integral member of the BlackBerry QNX team since 1993. He has held a variety of roles within the organization, including vice president of engineering and services. He is a graduate of Carleton University in Ottawa and holds a Bachelor of Engineering, in Electrical and Electronics Engineering.

Vivek Goel

Director Account Sales, BlackBerry IoT

Vivek is the senior manager responsible for direct account sales for BlackBerry IoT across the APAC region. He works closely with local teams to execute account growth strategies. Prior to joining BlackBerry, Vivek has held different positions in engineering, business development and product management with Freescale and Cypress semiconductors. Vivek holds a B.Tech(EE) degree from IIT-Delhi.

Elton Lum,

Senior Director, Field Application Engineering

Elton Lum leads the Field Application Engineering team at QNX and has held various development and technical sales positions in the embedded software industry for over 20 years.

Randy Martin

Senior Product Manager, BlackBerry QNX

Randy is the senior product manager for BlackBerry QNX's virtualization software strategy, which includes the QNX Hypervisor. He also plays a senior role on the QNX acoustics team, helping to define and deliver soundscape solutions for the automotive market. Throughout his career spanning over 30 years at BlackBerry QNX, Randy has held many positions including software developer, technical sales engineer, and product marketing manager. Randy holds an associate degree in electrical engineering from Ryerson University.

Sat Gill

Senior Director of Technical Alliances

As Director of Technical Alliances, Sat Gill is responsible for bringing the BlackBerry IVY platform to life, bringing together the biggest automotive suppliers with the freshest start-ups to develop on one of the most cutting-edge software platforms in the industry today. Sat has over 20 years of embedded systems experience across both Automotive and Aerospace industries and is a recognized leader in connected vehicles. He started his career at BAE systems before moving on to the Auto Tier 1 Denso. He then spent 10 years at Jaguar Land Rover, first leading many of their innovative technology products before heading up the Connected Car and Future Technology development team. Sat holds a Bachelor of Science in Electronics & It from Sheffield Hallam University.

Amit Sharma

Regional Sales Manager, India, BlackBerry QNX

Amit is the Sales Manager responsible for direct sales for BlackBerry IoT across the India region. Amit comes with prior experience of promoting tools for developing Safety critical embedded system including Modelling ,Simulation, Verification Validation, Operating System, Autosar, and Security solutions. Amit holds Bachelor of Engineering in Telecommunication from Bangalore University.

Sachin Dhiman

Field Application Engineer, BlackBerry IoT

Sachin Dhiman is Field Application Engineer in BlackBerry IOT group, leading technical discussion and driving meaningful outcomes for developing Safety critical Embedded System. Sachin is qualified in Electronics and Communication Engineering with extensive work done in the field of Real Time Operating System and Embedded System Software Verification and Validation.