

TECHForum Detroit



BlackBerry® QNX® invites you to our exclusive forum to gain valuable insights into how the latest QNX product portfolio with its next-generation solutions will, transform the automotive industry.

11:30	Registration Location: Algonquin Foyer
11:30 - 6:00	Live Demo Showcase Location: Algonquin Ballroom
	QNX Software Development Platform 8.0 – Our foundational software for embedded systems, bringing high-performance compute capabilities to the next generation of SoCs.
	QNX Hypervisor in the Cloud – See QNX Hypervisor in the Cloud showcasing the future of automotive software development. This innovative solution empowers developers to create, maintain, and test an integrated multi-OS environment, breaking free from hardware constraints.
	QNX Digital Cockpit – Consolidating multiple in-vehicle systems into a unified cockpit domain.
	QNX Sound – Learn how industry leading tools can be used to dynamically design, test and deploy a complete audio and acoustics experience in the car from a virtual workbench to deployment on production hardware under full software control.
	QNX Demo Vehicle – Featuring QNX Sound, our end-to-end solution for automotive audio spanning next generation SoC's and DSPs to virtualization and the cloud.
12:00 - 12:30	Buffet Lunch Location: Algonquin Ballroom CD
12:30 - 1:00	Welcome Message Speaker: John Moloney, Senior Vice President and Head of IoT Sales
	QNX Updates Speaker: John Wall, Senior Vice President and Head of QNX Location: Algonquin Ballroom CD
1:00 – 2:00	Concurrent Technical Session 1 – QNX SDP 8.0: Revolutionizing Embedded Systems with Next-Gen Real-Time OS for Automotive and Beyond Louay Abdelkader, Senior Product Manager Location: Charlevoix Ballroom A
1:00 – 2:00	Concurrent Technical Session 1 – SDVs need SDA: Build Software-Defined Audio Experiences with QNX Sound Jose Maria Marin, Global Sales Director, Software Defined Audio Location: Charlevoix Ballroom BC
2:00 – 2:30	Break Location: Algonquin Foyer
2:30 – 3:30	Concurrent Technical Session 2 – Using Standards-Based QNX Containers in a Microkernel Environment Randy Martin, Principal Product Manager Location: Charlevoix Ballroom A
2:30 – 3:30	Concurrent Technical Session 2 – Fast, Flexible Next-Generation Digital Cockpit Design with QNX Christ Habib, Senior Technical Product Manager Location: Charlevoix Ballroom BC
4:00 – 6:00	Cocktail Reception & Networking Location: Algonquin Foyer

BlackBerry QNX Sessions

QNX SDP 8.0: Revolutionizing Embedded Systems with Next-Gen Real-Time OS for Automotive and Beyond

QNX Software Development Platform (SDP) 8.0 represents the cutting edge of embedded system development, offering a high-performance, scalable Real-Time Operating System. Years of rigorous research and development have culminated in this release, making QNX SDP 8.0 the most advanced QNX OS to date. Built on a new microkernel, it features significant advancements in networking, tooling, and file systems as the foundation for all future QNX products, including QNX Hypervisor and QNX Containers; QNX SDP 8.0 provides unparalleled capabilities for the automotive industry. The adoption of high-performance computing is quickly becoming a reality for next-generation IoT systems. QNX SDP 8.0, featuring QNX OS, offers advanced performance for mission-critical IoT devices that require reliability and security. QNX's next-generation architecture scales from 4-core SoCs to 64-core SoCs, providing support for future silicon. Join this session to discover the unique innovations that set QNX SDP 8.0 apart.

SDVs need SDA: Build Software Defined Audio Experiences with QNX Sound

This technical session will introduce the audience to QNX Sound, the software-defined audio platform for automotive. It will include an overview of the signal processing components included in QNX Sound, and its key architectural principles of integration in modern consolidated digital cockpits that allow portability across different SoCs and the cloud. This session will also feature a hands-on demo of QNX Sound toolchain for configuration and tuning of acoustics components, including examples for EV sound design and media processing running on a Qualcomm 8295 automotive SoC.

Using Standards-Based QNX Containers in a Microkernel Environment

This technical session will walk through the design details of QNX Containers and provide implementation examples. Exploration will include working with containers within a microkernel architecture, working with standards-based tools and runtime (OCI, CRI, Kubernetes, Docker), and designing for performance, safety and security.

Fast, Flexible Next-Generation Digital Cockpit Design with QNX

Experience QNX's digital cockpit, consolidating in-vehicle systems into a unified cockpit domain utilizing QNX Hypervisor and VirtIO for running multiple mixed-criticality systems on a single system-on-a-chip design.

QNX's solution is built in collaboration between BlackBerry QNX and technology partners enabling plug-and-play across the OEM technology landscape. QNX digital cockpit is also available as a digital twin in the cloud allowing for scalable, automated and efficient ways of developing and driving infotainment innovation 100x faster than previous processes. The software virtualization and abstraction it provides is vital to accelerating development and maintaining feature delivery on-pace with consumer demand.

In this session, we will explore design considerations and architecture choices for both cloud and SoC-based development as well as share implementation insights from integrating Android, Linux and mission critical software for digital cockpits.