

# Functional Safety Discovery Workshop

BlackBerry QNX Professional Services

With the increase in automation and consolidation in automotive, medical and industrial embedded systems comes the need to ensure these systems can provide automatic protection against failures. Over the last few years, several functional safety standards have been introduced to ensure software development practices align with safety systems.

For the last 10 years, BlackBerry® QNX® has been delivering software products certified to the highest safety integrity levels according to ISO 26262 and IEC 61508. We've provided engineering services, working closely with our customers to understand their safety goals, and have brought custom developed components to certification with TUV® Rheinland.

Our expert team brings this acquired knowhow into our Functional Safety Discovery Workshop. This workshop is facilitated by a functional safety architect who will lead a discussion aimed at gaining a mutual understanding of requirements. They will also bring in relevant experts to provide technical depth and insightful information.

In the first portion of the workshop, we will work with you to discover your system architecture and safety goals. In the second portion of the workshop, we will present relevant BlackBerry QNX products and services to help address those goals.

## Client System Review

In the first portion of the workshop, BlackBerry QNX experts will discuss system safety considerations with you and your team, such as:

- What is the safety system being developed?
- What are the goals, hazards and risks?
- What is the architecture of the system?
- What are the functional and safety requirements?

Based on this review, the functional safety architect will compile a report with recommendations for further actions, and customize the second portion of the workshop.

## QNX Product Walkthrough

Based on a newly gained understanding of your intended system, we will provide an overview of relevant BlackBerry QNX safety-certified products, such as QNX OS for Safety and QNX Hypervisor for Safety, along with possible additional services. The focus of this walkthrough will be on what BlackBerry QNX can provide, and will include:

- A walkthrough of product safety documentation, such as the safety case, hazard and risk analysis and safety manual
- An explanation of the safety process for customer engagements, such as a DIA
- A demonstration of the additional Safety Services, such as safety analysis and development
- Example case studies and work products

## Service Package Details

Facilitated by a functional safety architect, this engagement includes 15 person-days, delivered virtually and can be used over 60 days. Deliverables from this workshop include:

- Presentation material
- An overview of the customer's safety system: including design notes, architecture diagrams and an abbreviated set of requirements
- A summary of recommended BlackBerry QNX safety-certified products and services

Note that copies of the BlackBerry QNX product safety documentation are provided only to those clients who have purchased software licenses for safety-certified BlackBerry QNX products.



## About BlackBerry® QNX®

BlackBerry QNX is a leading supplier of safe, secure, and trusted operating systems, middleware, development tools, and engineering services for mission-critical embedded systems. BlackBerry QNX helps customers develop and deliver complex and connected next generation systems on time. Their technology is trusted in over 150 million vehicles and more than 300 million embedded systems in medical, industrial automation, energy, and defense and aerospace markets. Founded in 1980, BlackBerry QNX is headquartered in Ottawa, Canada and was acquired by BlackBerry in 2010.