

# Embedded System Architecture Assessment

BlackBerry QNX Professional Services

Your safety-critical embedded systems need to run 24 hours a day, 365 days a year without failure. This means they need to be safety-certified, extremely reliable, and highly secure. The complexity of these systems is compounded by the range of technology choices available, and an ever-increasing set of safety requirements.

BlackBerry® QNX® has developed a set of software assessment service packages to guide you through the complex process of aligning the right technology and processes with your development goals. Designed to help your team get the most from the broad range of safety-certified and secure software products from BlackBerry QNX, our software assessments help you increase reliability, shorten time-to-market and reduce development costs. The Architecture Assessment service package is just one of the Software Assessment services available, and is designed to remove some of the complexity of designing embedded systems.

This multifaceted service offers two distinct tracks depending on what stage you're at:

- Assessment
- Solution consulting

We offer complete flexibility in how this service is delivered, allowing for multiple one-to-one or one-to-many sessions, the development of project artefacts (project documentation, plans etc.) and even tailored presentations on topics that you're interested in.

## Assessment

As the term implies, complex systems require many technology components to address the vast number of requirements that ultimately lead to your solution, or finished product. In collaboration with your design team, our assessment team can evaluate your system architecture, or even your application-specific architecture, then output a roadmap of the required BlackBerry QNX software components. They will also outline the configuration details and identify any gaps in your overall approach. Assessment areas can include, but are not limited to:

- Functional partitioning
- System partitioning
- Service modelling
- System boot strategies
- Performant communication (local IPC and remote)
- Security policy management
- High level safety goals
- System update

## Solution Consulting

Need to understand how to implement the solutions identified in the initial architectural assessment? The solution consultancy aspect of this service package can help. Whether you need to prototype the outputs of the architectural assessment, or you need to transition to a managed professional services engagement, our engineering experts will guide you through the process.

## Service Package Details

Provides up to 40 hours of engagement with BlackBerry QNX system architects and engineers, which can be used over a 60-day period. During this engagement we can provide:

- Collaborative sessions, delivered remotely
- Tailored content, presented specifically to meet your engagement requirements
- Artefacts, which can include, but are not limited to:
  - Any presentation materials
  - Design notes
  - Architectural diagram
  - Pseudo-code
  - Proof implementations
- Includes two QNX Software Development Platform 60-day evaluation licences



## 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.