

Better Imaging Better Diagnostics

QuEST Global - Imaging Diagnostics Expertise

80% of the leading imaging diagnostics companies are investing in building services for faster scan time, better scanning experience, predictive maintenance and intelligent image processors and viewers. However, the companies are finding it challenging to develop holistic and differentiated solutions to address these requirements. The rising field defects, device recalls and strict regulatory requirements are making the engineering process complex and slow.

QuEST has over 15 years of expertise in enabling leading imaging diagnostics companies to develop cutting-edge imaging products across all modalities - X-Ray, Ultrasound, MRI, CT, Nuclear Medicine and PACS/VNA. Our portfolio of solutions help imaging diagnostics companies to develop market relevant medical devices and to stay competitive by reducing cost while maintaining very high quality.

QuEST has demonstrated expertise in the following areas:

Application & device software development

Image processing and image analysis

Extensive experience on diagnostic imaging modalities

Test automation framework for imaging diagnostics



QuEST's multi-platform and device agnostic test automation tool provides a uniform testing methodology through a GUI-driven framework to test medical device applications across different operating systems and rendering infrastructure. It transforms product development cycle of imaging diagnostics product by reducing testing time, enhancing product quality and minimizing time to market.

Cross-Platform Test Automation Framework for Imaging Diagnostics

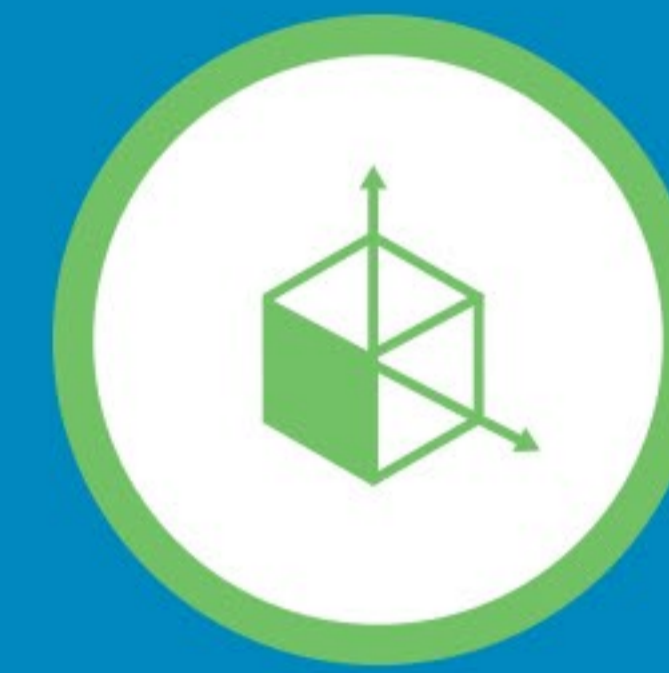
Key Features:



GUI-driven intuitive test script creation



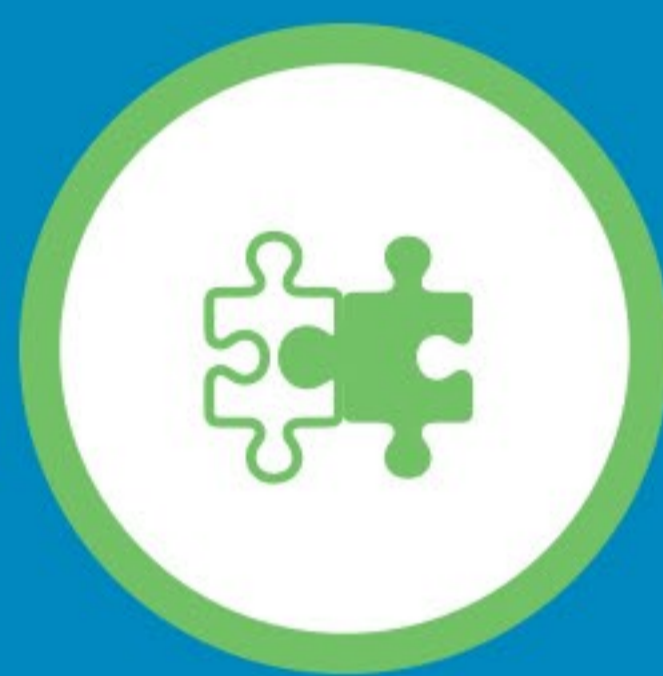
Supports OS platforms, such as Windows, Linux, Android, iOS



Diverse rendering infrastructure – desktop, web, mobile and firmware based HMI for stand-alone products



Flexible architecture to accommodate easy integration of testing tools



Enables integration with the DevOps environment



Generates custom reports in-line with customer processes



Deep learning capabilities with impact analysis and possible corrective actions



Modules

- Test set-up and flow control
- Test execution engine
- Logging and reporting
- Configuration

Business Need:

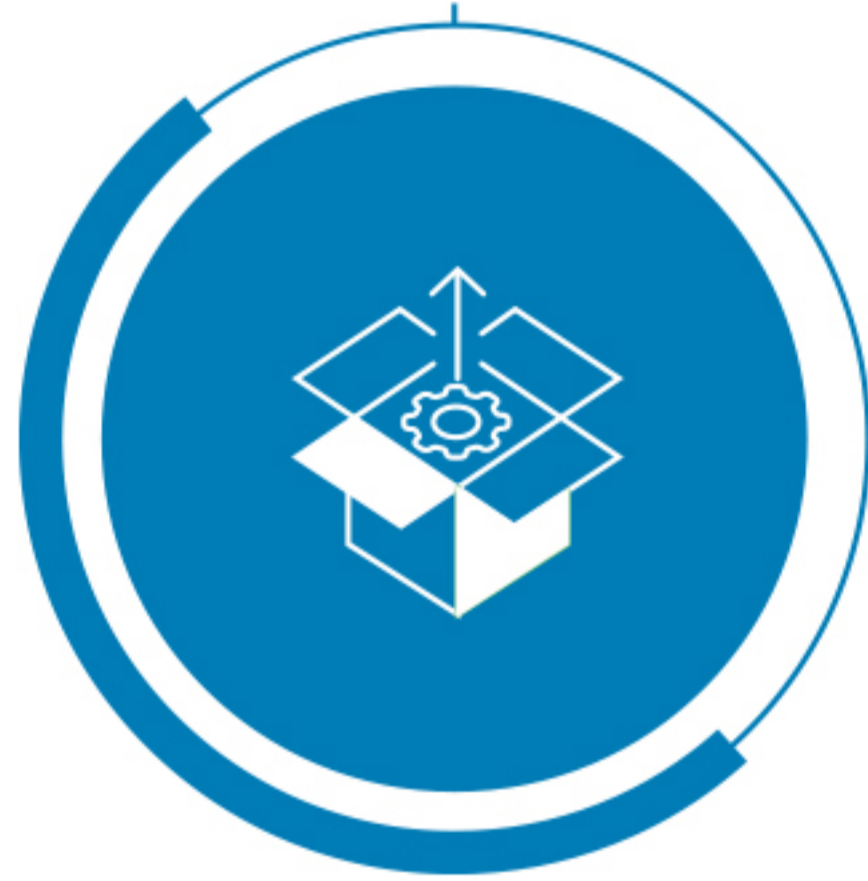
1 Develop a common software platform for diagnostic imaging modalities

2 Functional performance to exceed/be at par with existing products in the market

3 Provide assistance to modality application developers to implement based on the new framework

Case Study:
Common Platform
Development
for Diagnostic
Imaging
Equipment

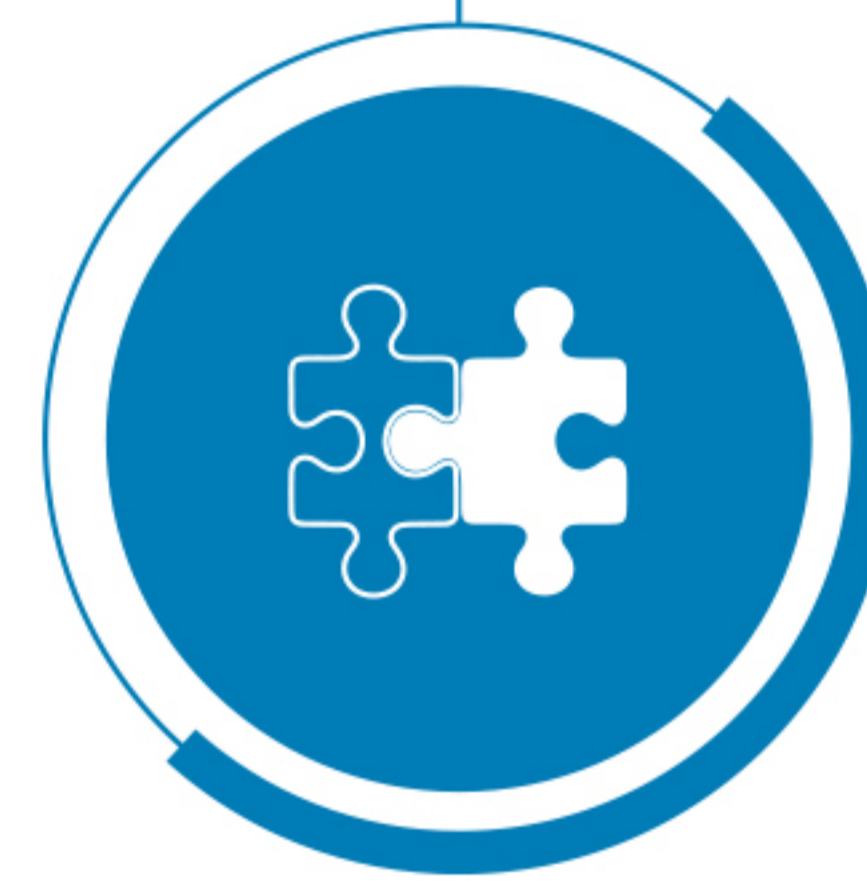
Solution Features



Common layer of services supporting multiple modalities



Standards based design to support easy integration



Integration with modality specific systems



Platform modules

- DICOM services
- Utility services
- DB operations
- IHE profile management

Benefits

01

Robust design for supporting multiple modalities

02

Faster time to market

03

Reduced enhancement/maintenance

Industry Recognition

Zinnov Zones: Recognized as an industry leader among the Global R&D Service Providers within Medical Devices for 2017



Gold Partner of GE



Engineered over 40 product categories across modalities, such as X-ray, Ultrasound, MRI, CT, Nuclear Medicine and PACS



60-80% cost reduction through proprietary Cross-Platform Test Automation Framework for imaging diagnostics



Extensive experience in Class II products



Strong expertise on regulatory and compliance



Certifications and standards –

- DICOM, HL7, ISO/ IEEE 11073
- HIPAA, Data Protection Directive (95/46/EC)
- IEC 80001-1 to IEC/TR 80001-2-8
- ISO 13485 certified development centre
- IEC 62304 compliant development process

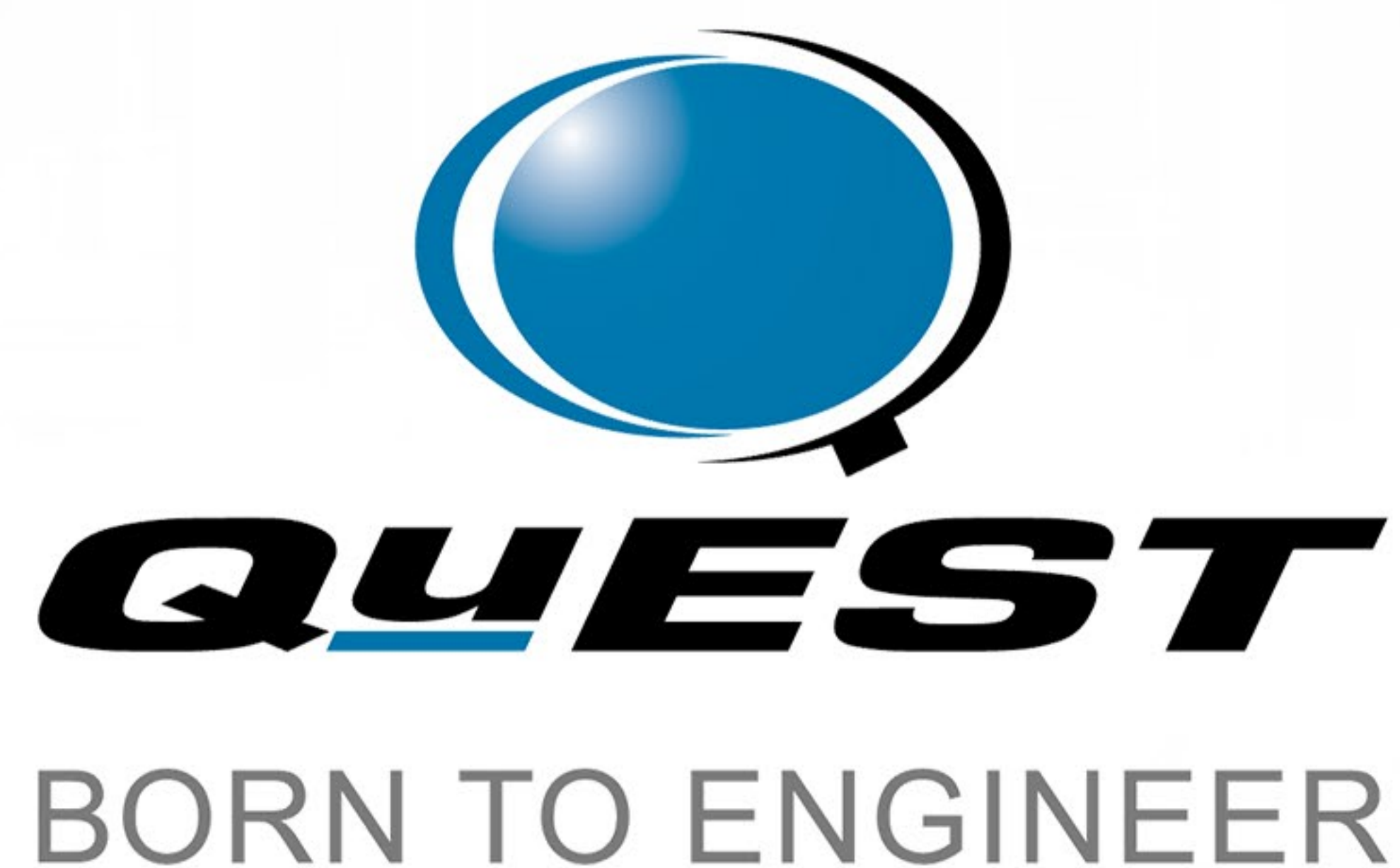


Global talent across 42 offices in 12 countries

QuEST
Differentiators

About QuEST Global

QuEST Global is a focused global engineering solutions provider with a proven track record of 20 years serving the product development & production engineering needs of high technology companies in the Aero Engines, Aerospace & Defence, Hi-Tech & Industrial, Medical Devices, Oil & Gas, Power, and Transportation industries. The company offers mechanical, electrical, electronics, embedded, engineering software, engineering analytics, manufacturing engineering and supply chain transformative solutions across the complete engineering lifecycle.



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