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Solution brief

Deliver high-quality applications

Unisys Quality Engineering and Assurance

Highlights

- Team enablement through AI-driven quality engineering
- Product and code quality checks
- Automated test execution
- Continuous integration pipelines
- Autonomous regression and security testing
- Compliance reporting and dashboards for audit readiness
- Quality assurance (QA) that aligns with SDLC process stages
- AI-powered automation with self-healing test environments
- Real-time defect analytics and predictive defect prevention
- Continuous improvement across the SDLC, including post-deployment monitoring and feedback loops
- User experience optimization as a core quality outcome

Your applications power critical business operations, including customer transactions, patient care, and supply chain efficiency. Reliable, modern applications propel your users' ambitions and business initiatives forward. Yet keeping pace with release demands while maintaining quality grows harder as applications become more complex and compliance requirements multiply.

Quality Engineering and Assurance transforms how you approach software quality. Through AI-powered automation and intelligent engineering, you engineer quality from the start rather than test for it at the end. The result? Reliable, efficient, and cost-effective software. You spend less effort on support, rework, and crisis management and more on developing innovative new features. Assurance is embedded throughout the software development life cycle (SDLC) — from requirements and design through deployment and post-release monitoring. Issues detected in production feed back into continuous learning and process improvement, advancing engineering maturity over time.

Build a quality culture with autonomous testing, self-healing environments, and real-time defect analytics. Your testing cycle grows more focused and dedicated while your applications become faster and smarter.

Empower your teams

Equip your teams with modern tools and insights, enabling them to work more productively and collaborate more easily through transparent, predictable processes.

How you benefit

- **Reduced risk:** Identify and address security vulnerabilities proactively with end-to-end security testing, including continuous monitoring and reporting. Centralized compliance dashboards provide visibility into audit readiness and policy-driven release approvals, enabling you to meet regulatory requirements with less effort and reduced penalty risk.
- **Increased quality, reliability, and experience:** Achieve high-quality releases with continuous validation and predictive defect prevention that increases reliability and decreases leakage to production. AI-driven frameworks broaden and deepen testing, catching issues that manual processes might miss. Continuous assurance ensures that quality goes beyond a pre-release activity to become an ongoing process, with post-deployment monitoring and feedback loops driving ongoing improvement and reducing risk over time. User experience is a core outcome — predictable, stable releases and fewer defects mean better customer satisfaction and loyalty.
- **Accelerated time to market:** Speed up application release cycles of new products and features by automating repetitive testing tasks and harnessing AI. Automation frees up your team's time for priority business initiatives, while continuous validation and real-time analytics allow your teams to explore new opportunities for a competitive advantage. Your organization can also respond faster to business, regulatory, or customer-driven changes.
- **Greater agility and innovation:** Streamline quality processes and free up teams to experiment, iterate, and innovate quicker. Related services enable legacy modernization, cloud migration, and the adoption of new technologies to achieve a competitive edge.
- **Decreased costs:** Lower operations expenses and IT maintenance costs with autonomous testing and monitoring. The solution reduces warranty claims, support costs, and reputational risks by decreasing production defects. It also maximizes your organization's technology investment ROI with scalable frameworks and self-healing environments, allowing you to do more with less.
- **Improved user experience:** Gain continuous assurance and post-release monitoring that focuses every release on improving the user experience and business outcomes.

Optimize the customer experience

Strengthen product quality for better customer experiences, fewer complaints, and a stronger brand reputation. Predictable, stable releases encourage customer loyalty.

Why Unisys?

Unisys brings decades of expertise in engineering quality into managing complex, regulated, diverse cloud environments. We provide industry-leading security expertise and tailored solutions that align with your specific cloud and industry needs. Our delivery expertise in highly regulated environments means we prioritize security, compliance, and responsible AI. We partner with the best in the field to optimize your digital transformation for impactful business outcomes and a competitive advantage.

We approach quality engineering and assurance as a control layer for modern application delivery, not just a testing service. Unlike providers that rely on manual QA augmentation, we industrialize quality through AI-powered automation, self-healing environments, and policy-driven release governance. This allows organizations to move faster while preserving trust, compliance, and operational stability and reducing risks.

To explore how Quality Engineering and Assurance allows you to optimize the quality of your applications and comply with regulations, visit us online or contact us today.

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