IONIDEA



INDEPENDENT VERIFICATION & VALIDATION (IV&V)

VALUE PROPOSITION

IonIdea reduces the total time and cost of technology implementation by infusing and ensuring quality right at the very beginning of each project.

We develop test plans, test cases, test processes, test harnesses and test tools for thorough testing.

We test the solution for functionality, compliance, compatibility, interoperability, regression, performance, reliability, usability, and security.

IonIdea's testing, verification and validation services employ efficient models with proven strategies, processes, methodologies, automation and tools to accelerate results and maximize ROI.

HIGHLIGHTS

- ✓ IonExpress engineering methodology
- ✓ IonAssurance verification and validation methodology
- ✓ ISO 9001 certified
- ✓ SEI CMMi Level 3 assessed

ION ASSURANCE

Early detection, correction and prevention of errors through verification and validation can significantly reduce costs, effort and time required to deliver high quality products by eliminating the need for redesign and rework.

Errors found earlier in the project lifecycle are easier and less expensive to remedy than those found later on.

IonIdea's Independent Verification and Validation solution consists of several testing processes that are closely integrated with the core project development work starting at the very beginning during design.

Verification ensures that the product is built right, while Validation ensures that the right product is built.

Design Phase

Project Charter Validation
Requirements Validation
Architecture & Design Verification
Design and Test Traceability
Test Case Design
Test Scenarios Design
Test Automation

Development Phase

Functional Testing
Usability Testing
System Testing
Interoperability Testing
Compliance Testing
Reliability Testing
Security Testing

Performance Testing

Deployment Phase

User Acceptance Validation

BENEFITS

- ✓ Reduced total cost of ownership
- ✓ Functionality as expected by users
- ✓ Ease of use and higher user acceptance
- ✓ Interoperability with other applications
- ✓ Performance and reliability as expected
- ✓ Compliance with standards
- ✓ Backward and forward compatibility with systems
- ✓ Flawless data migration
- ✓ Rework reduced or eliminated

EXAMPLE TOOLSET

- √ IonExpress and IonAssurance
- ✓ Requirements Management: CaliberRM, RequisitePro, DOORS
- ✓ Functional Test Frameworks: Silk-Test, QTP/WinRunner, TestPartner
- ✓ Performance Test Frameworks: SilkPerformer, LoadRunner, WebLOAD
- ✓ Other Tools: Accessibility Testing tools, Security Testing tools, Network Monitoring tools

REPRESENTATIVE ENGAGEMENTS

Solutions for Telecommunication Service Providers

- ✓ Primus Telecommunications: Increased the overall quality of production deployments of Primus' Customer Portal by 30%, and reduced the software validation time from 5 business days to just 1 business day, by developing automated test frameworks.
- ✓ **Equant FT**: Verified compliance of an Order Management System to business requirements; increased validation automation coverage from 10% to 65% of all test cases and scenarios; and implemented repeatable performance testing solution to cover all critical paths. These solutions resulted in reduction of production issues by 95%.
- ✓ **Cablevision**: Instituted a process for verification of project charter, specifications, architecture, design; and maintained design and test traceability. This resulted in UAT cycles time reduction by 20% and totally eliminated all major production issues for all projects.
- ✓ **GO**: Verified and significantly modified project charter and business requirements for a CRM initiative, thereby reducing costs by 80%, while still delivering 80% of the functionality originally planned, including all critical functionalities. Verification and Validation using manual and automated techniques, and maintaining design and test traceability ensured that 100% of the business requirements were implemented right the very first time.
- ✓ **DirectTV**: Performed end-to-end System Testing an IPTV system including set top boxes, head end equipment, switches and other network components. Identified all problems and followed through to resolution before the system was deployed.

Solutions for Financial Services Industry

- ✓ Green Dot: Developed automated validation framework for various Credit Card processing applications, resulting in improvement of quality metrics by 15% and reduction of UAT cycle time by 7%.
- ✓ Fannie Mae: Performed functional, performance and interpretability testing for Underwriting, Origination, and other web based mortgage applications. Assured functionality coverage and targeted performance levels.

Solutions for Software Product Companies

- ✓ **Conformia**: Audited complete SDLC and verified that the Pharmaceutical software products are in compliance per FDA regulations. Maintained traceability, automated testing of nightly builds, and tested performance and usability. For each and every release, ensured that client acceptance tests would pass in just one test cycle.
- ✓ Artesia: Assured SDLC compliance for a Digital Asset Management implementation. Validated traceability of all work products, tested functionality and performance, and ensured that production deployments had zero issues.
- ✓ **RollStream**: Provided full suite of testing services for a web based Retail Management solution. Developed test plan, test cases, test harness, and test automation. Tested functionality, usability, performance, security and data migration. Improved production reliability and stability by 35% and eliminated all major defects.
- ✓ **Intelliworks**: Performed manual verification and validation of a web-based CRM SaaS solution for higher education industry.

CONTACT

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