Success Story – Automating the Test Design, for a large Tier-1 US Telco

ATA Case Study
Leading Tier-1 Telecom company in the US, providing telecommunications, media and technology services globally. It is the world’s largest provider of wireless, fixed-line and IPTV services, with a customer base of over 153 million and revenue worth 171 Billion USD, globally.
Inefficient and inconsistent test design approaches across applications; lack of standardization, step details - resulting in testing time lags, ineffective test reviews, defect seepage and dependency on high cost contractors

Less than expected regression automation caused significant effort to execute subset of regression. This in turn resulted in defects seeping into production impacting production stability and customer experience

No standard automation framework which resulted in limited possibilities of automation and high maintenance cost of automation frameworks

High maintenance cost of automated regression test cases

No Progression Test automation. Resulted in delayed test execution & late defects detection

Significant effort & SME dependency in creating test data which was a manual process

Dependency on availability of interfacing applications resulted in delays in test execution

Application focused teams resulting in minimal cross leverage of resources

Dependency on individual resources and their availability resulting in high cost

Lack of build and deployment tools to implement CI

No integrated view of test execution progress across applications and programs

No means or metric to measure outcome of the automation and optimization efforts

Lack of leading indicators towards testing and business objectives
Implemented dedicated Center of Excellence for testing transformation
- Test Strategy CoE
- Test Automation Tools CoE

Implemented integrated ATA (Test Design Automation) solution. This automates all the aspects of testing – Test Design, Test case creation, Automated Scripts creation, Test Data Creation, integrated with Test Execution automation, Updates to Test Management Solutions like QC and Rally, Reporting – Online and in Mail Box; at various rolled up levels. Implementation of these solutions help realize “Shift Left” and “DevOps” benefits.
• 71% of total test case design automated
• 60% of Application Progression Test Case execution Automated
• 78% of E2E Flow Progression Test Steps Automated
• 79% of Application Regression Test Case Execution Automated
• 94% of E2E Flow testing Regression Automated
• 27K + Automated Test Case executions in application regression testing every 4 months
• 22K + Automated Test Case executions in application Progression (new code) testing every 4 months
• 72K + Automated Test Step executions in E2E flows Progression testing every 4 months
• 41K + Automated Test Step executions in E2E flows Regression testing every 4 months

Impact

Robust
Distributed Architecture

Scalable
Over 24 months usage
50+ Applications Hosted

Adaptable
Used by N/W Facing, Middleware, GUI Apps

Business Focus
Model Business Scenarios
Reduce Redundancy

Technology Agnostic
Java, VB, Perl, Shell, SOAP
Mainframe, etc.
• Reduction / elimination of redundant test phases
• Standardized test case design with consistent level of details
• Efficient test design review with early detection of requirement gaps
• Achieved Zero Touch Testing
• Reduced wait time and early detection of defects by Continuous Test Management platform
• More value of automated test cases by ability to execute them more often
• Shift Left realized with Progression Automation. Benefits realized in same release
Thank you

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