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



About The Customer

1000



Leading Tier-1 Telecom company in the US, providing telecommunications, media and technology services globally. It is the world's largest provider of wireless, fixedline 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

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- 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

Strategy and Implementation



Implemented dedicated Center of Excellence for testing transformation

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- 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.



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- 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

Robust	Scalable	Adaptable
Distributed Architecture	Over 24 months usag 50+ Applications Hoste	e Used by N/W Facing, ed Middleware, GUI Apps
Business Focus		echnology Agnostic

Model Business Scenarios J Reduce Redundancy

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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