

Continuous
integration

Continuous
delivery pipelines

Continuous
deployment

Automated
Operations

Selenium

Automatic release
of software

Continuous
delivery pipelines

Jenkins

Pega® Robotics

Automated testing

Techmahindra Pega AQT Framework™

An offspring of agile software development that automates repetitive tasks in Pega software deployment and testing cycles, thereby allowing companies to release new functionalities in a matter of minutes



INNOVATION DRIVEN COMPANIES ARE UNDER PRESSURE TO CONSTANTLY DEPLOY NEW SOFTWARE. HOW CAN YOU LEVERAGE TECH MAHINDRA'S AQT FRAMEWORK™ FOR YOUR PEGA IMPLEMENTATIONS?

INDUSTRY CHALLENGES

Significant delay due to software pre-release process

- More time spent on testing, deployment and releases than on design.
- Human errors leading to a high proportion of production incidents in manual release of software

TECH MAHINDRA PEGA AQT FRAMEWORK™

The AQT Framework™ enables IT teams to release software every few hours at a continuous pace, which is largely defect free, by automating repeat processes. It is also configured to send out e-mails to the

respective IT teams, containing crucial data tagged to each release, such as the version, errors logged, etc.

Tech Mahindra approaches this solution in two ways. The standard method, which involves Jenkins and script based automation and an innovatively pioneering method, which makes use of Pega Robotics.

OUR SOLUTION APPROACHES

SCRIPT BASED AUTOMATION

Based on Tech Mahindra's decade old expertise in Pega implementations, this solution developed on standard practices works as follows: A code is exported to the destination using the Jenkins Engine by invoking Pega Deployment scripts, and is also tested automatically by invoking Selenium scripts. It can be configured to send an E-mail to select recipients showing information about the version of software deployed/errors logged, etc. Continuous integration can also be made possible, by configuring this tool to run automatically at specified intervals, enabling hassle free release of software with minimal defects with minimal human intervention.

ROBOTICS AUTOMATION

This first-of-its-kind approach, developed by Tech Mahindra, works using the Pega® Robotics tool. This tool automatically logs in as the admin/user, exports/imports the relevant piece of code, as well as runs multiple test cases on it at the mere click of a button. Continuous integration as well as e-mail updates on the status of each release are also made possible. In addition to this functionality, the automation can be carried forward to the next step, by logging errors from each test cycle into defect management tools such as QC or Jira.



SOLUTION HIGHLIGHTS

- Automation driven software release allows for organizations to bring out new functionalities every few hours
- Possibility to independently deploy or test software on-demand, independent of release cycles
- Once checked-in, the tests are automated for each instance or scenario in the process
- Regression defects are eliminated early on in the lifecycle
- Security vulnerabilities are identified at build time
- Metric-driven feedback loops provide guidance to continuously improve software releases

BENEFITS AT A GLANCE



ABOUT TECH MAHINDRA

Tech Mahindra is a Pega Strategic Consulting Partner, with a history of collaboration since 2003. With over 1000 consultants skilled in Pega technologies, Tech Mahindra is well poised to serve our global customers with experience gained from hundreds of successful customer project implementations across various industries globally. Tech Mahindra has deep experience in delivering Pega-based solutions to complex business initiatives and also help organizations start small and scale fast on business initiatives leveraging the Pega technologies. Tech Mahindra and Pega closely collaborate at multiple levels – from proactively developing go to market innovative industry solutions as well as ensuring success on customer engagements.

ABOUT PEGASYSTEMS

Pega is a leader in software that streamlines business and enhances customer engagement in Global 3000 organisations.

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