PREVISE

Telecommunications

Case Study

Automation E2E Testing

Client Overview

ATLC Port Control is a telecom solution designed to manage number porting processes, orders, networks, and audits. The client required automation to streamline regression testing, improve accuracy, and accelerate release cycles.

Project Overview

- The client relied heavily on manual regression testing for Port Control, which was resource-intensive and error-prone. This created delays in release validation cycles, increased the risk of defect leakage, and reduced confidence in production quality.
- Implemented a scalable Java-Selenium Hybrid framework with TestNG & Maven.
- Automated end-to-end Port Control flows: Orders, Network, Explore, Reports, Manage, and Work Queue.
- Integrated with Jenkins, Azure DevOps, GitHub, Jira for CI/CD readiness and test management.

Key Deliverables

- Designed and implemented a scalable Java-Selenium TestNG framework tailored for Port Control.
- Automated end-to-end regression suites across Orders, Network, Explore, Reports, Manage, and Work Queue modules.
- Delivered reusable scripts for UI testing, validations, and notifications.
- Provided execution guides and documentation for QA team independence.
- Integrated automation with Azure DevOps & Jenkins for CI/CD readiness.

Technologies / Tools Used

Jira, GitHub, Java, Selenium, TestNG, Maven, Jenkins, Azure DevOps

- Utilized GitHub, and Jira for version control, test management, and defect tracking.
- Executed automation scripts via Jenkins pipelines to ensure consistency and faster validation.
- Resolved execution issues proactively, ensuring stable regression cycles.

Impact / Results

- 60–70% reduction in manual regression effort.
- Accelerated release validation cycles, improving time-to-market.
- Improved accuracy and defect detection, reducing production risk.
- Enabled QA team independence in deployments and automation execution.
- Higher transparency and collaboration through industry-standard tools.

THANK YOU

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