

Quality Assurance for MuleSoft Migration Project

Robust test artifacts helped in smooth migration from MuleSoft 3 to MuleSoft 4

ORGANIZATION

XTIVIA's client is a leading car rental company that operates in more than 10,800 corporate and licensee locations throughout 145 countries in North America, Europe, Latin America, Asia, Australia, Africa, the Middle East, and New Zealand. The company is the largest worldwide airport general use car rental company with more than 1,700 airport locations in the U.S. and more than 1,300 airport locations internationally. In addition to car rental, the company also owns the vehicle leasing and fleet management company.

CHALLENGE

The client had undergone an organizational restructuring and wanted to adopt a more agile approach to business development. They were running applications on an older version of MuleSoft, so it was difficult for the organization's IT to keep up with the demands of the business. XTIVIA helped the organization test the MuleSoft application migration from Mule 3 to Mule 4, enabling them to unlock the new platform offerings and deliver business change faster. A few of the challenges included:

- Validating all business critical scenarios on the upgraded systems
- Completing testing within scheduled timelines
- Knowledge transfer to the testing team who will be testing the upgrade, as different testers tested the existing functionality
- Re-testing the fixes and following up to ensure a logical closer of issues

TECHNICAL SOLUTION

The testing team developed a powerful test artifact that helped test the MuleSoft upgrade on time with no defect. Highlights include:

- Conducting initial brainstorming sessions/knowledge transition to the team
- Defining the test scope by identifying the ideal test scripts for execution
- Better planning of the test scope and efforts
- Prioritizing the test scripts and using the correct data for execution
- Ensuring QA systems are made available throughout the phases while testing
- Raising defects early in the process so that they can be addressed with minimal impact
- Regular defect triage calls so that issues are prioritized
- Tracking the progress regularly and maintaining transparent communication

BUSINESS RESULT

Thanks to the test artifact developed by the XTIVIA team, the upgrade to MuleSoft 4 went live on time, with zero critical incidents. The client was able to utilize new platform offerings to achieve business development with increased agility as a result. The XTIVIA Quality Assurance team was able to deliver this migration in accordance with its high standard of quality.

KEYWORDS

MuleSoft, JSON, XML, COBOL Copybook, Azure, AWS, Bluemix, B2B, Secured Microservices, Splunk

SOFTWARE

Mule 3.8 version, AnyPoint Platform 6.5.0, CloudHub, AnyPoint Studio, Maven, GitHub, AWS, AnyPoint MQ, JMS

HARDWARE/PLATFORM

Amazon Web Services, Azure, Salesforce, IBM Bluemix

ABOUT XTIVIA

XTIVIA is a proven technology integration and innovation company known for delivering leading-edge technology solutions to our clients' specific requirements, regardless of project complexity. We bring next-level business operations to reality through Application Development, Business Intelligence, Data Warehousing, Database Support & Management, Enterprise Information Management, Digital Experience Solutions, and Enterprise Resource Planning. Our success stems from a demonstrated ability to deliver deep expertise via professional services, empowering clients to leverage their chosen technology successfully, competitively, and profitably. XTIVIA has offices in Colorado, New York, New Jersey, Missouri, Texas, Virginia, and India. www.xtivia.com.