

2016 HPE Software Innovator Awards

**Manish Agarwal, Fannie Mae
Bill Taylor, Fannie Mae**

Mortgage securitization firm leverages best of breed application lifecycle management and testing tools to enable DevOps, seamless systems integration and a leftward shift in test execution and defects detection

Honorable Mention

Transform to a Hybrid Infrastructure

Software

- HPE Application Lifecycle Management (ALM)
- LeanFT
- Performance Center
- Unified Functional Testing (UFT)
- Business Process Testing (BPT)
- SiteScope

Services

- HPE Software Services



High-level overview

Using HPE Software products Application Lifecycle Management, LeanFT, Performance Center, Unified Functional Testing, Business Process Testing and SiteScope, Fannie Mae realized the following benefits:

- Reduces testing cycle time by 50%-80% to accelerate time to market while still complying with internal governance and regulatory requirements
- Identifies software defects earlier in the software development lifecycle, when it is easier to remediate them to increase quality while reducing costs
- Creates the capability for a Continuous Integration and Continuous Deployment (CICD) pipeline, where development and quality checks happen automatically and release into production happens automatically, all allowing the enterprise to respond to market needs with greater speed and flexibility
- One stop test management execution provides consistency and seamless integration, allowing visualization of Systems Development Lifecycle and highlighting areas of risk
- Realizes a central store for test cases and their progress, with traceability to the requirements to simplify proof of internal governance and regulatory compliance

- Provides visibility and progress of testing and development status in near real time to give a look into readiness for product roll-out
- Delivers open solutions that optimize application performance to facilitate seamless integration of best of breed software tools across the enterprise

Company

A leading source of residential mortgage credit in the U.S. secondary market, Fannie Mae is supporting today's housing recovery and helping to build a sustainable housing finance system. Fannie Mae exists to provide reliable, large-scale access to affordable mortgage credit across the country at all times so people can buy, refinance or rent homes.

Contacts

Jose Mingorance is DevOps Director, Manish Agarwal is a Software Development Test Engineering Manager, and Bill Taylor is an ALM Tools Manager at Fannie Mae.

Business goals

All of Fannie Mae's operations are driven by systems: from acquisition to pooling to securitization accounting and reporting. They have 4,000-5,000 end users, some of whom

are internal to Fannie Mae, and others, such as investors or lenders, who are external. At any given time, the enterprise may have 200-300 new application releases in process. Fannie Mae operates under significant regulatory oversight requiring extensive quality checks, documentation and execution reports. Traditionally, the tests were performed manually. Now, with test automation and agile practices, the whole product pipeline and its capabilities have been shrunk together, and integrated with a Jenkins pipeline. HPE ALM serves as a central repository for all applications, synchronized with Rally and IBM DOORS, where user stories and requirements are stored. Automation brings over requirements or user stories, so that test cases can be built against the requirements, and test execution results can be recorded and reported at a higher level via a single-pane-of-glass. With traditional waterfall processes, there was a lag in reporting. Agile processes and automation give near-real time visibility, from concept, through application changes, through test execution and results, of IT response to the business needs.

HPE Software Services

Because uptime is a priority, Fannie Mae uses HPE Software Services as a reliable source of upgrade execution and best practices. HPE Software Services allow Fannie Mae to transition to new software versions in a compressed time frame, within budget, with strong knowledge transfer and with lower risk.

Additional benefits

To enhance its development processes, Fannie Mae is moving from a traditionally waterfall process operation to a lean and agile Dev shop, and the DevOps capability is core to the success of that transformation. Test automation, Application Lifecycle Management and DevOps standardization are all key pillars. Because the HPE roadmap is aligned to open source tools, Fannie Mae has the flexibility to use a variety of tools, while still keeping all integrated to achieve business objectives.

HPE Software products implemented

- HPE Application Lifecycle Management (ALM)
- LeanFT
- Performance Center
- Unified Functional Testing (UFT)
- Business Process Testing (BPT)
- SiteScope



Sign up for updates

★ Rate this document