



<b>Context</b>	In 2014, a major national autoparts distributor needed to address their QA challenge, even as they geared up for tremendous growth in their application portfolio.	In 2020, Appvance IQ enables comprehensive daily testing across a greatly expanded application portfolio, with a shockingly low resource commitment. Production bugs are unheard of, notwithstanding continuous enhancements across the portfolio, including the addition of mobile apps.
<b>Applications Under Test</b>	There was only one non-mobile application to test in 2013, but it was large and complex, with thousands of usage paths and permutations of data.	The application portfolio has grown to include eight major systems in 2020, including several mobile applications for iOS and Android.
<b>Staffing</b>	No dedicated resources were available for QA.	The vastly expanded QA program requires less than two FTEs because of AIQ's AI powered productivity. A minimum of ten FTEs would be required if AIQ was not used.
<b>Testing Regime</b>	A few dozen manual tests were irregularly run against a single application.	Eight major systems, including mobile applications, are tested against a battery of scripts developed for specific use cases, but relying on AI to keep pace with the rate of application evolution.
<b>Test Creation</b>	All tests were manually created.	AIQ's AI test generation has developed almost 40,000 scripts across eight applications. These are augmented by human created scripts for targeted use cases that are created using AIQ's extremely productive Test Designer.
<b>Code Coverage</b>	It is estimated that the test suite provided perhaps 15% code coverage.	The test portfolio now extends to roughly 100% code coverage across the entire application portfolio. Plus, it runs every night against latest build.
<b>Production Bugs</b>	Code defects easily slipped into production builds, leading to regular production bugs of various severities.	Code-caused production bugs are a thing of the past. AIQ finds and flags defects so engineers can squash them before they get advanced to production.
<b>Reliability</b>	The single application-under-test was plagued by production bugs and performance issues. This caused business problems since it is used by agents around the country.	The eight applications, used daily by thousands of agents across the country, have a reputation for reliability and responsiveness. Part of this is due to the regular load and performance testing that AIQ executes from the same scripts developed and generated for functional testing.

### AI Highlight

The initial machine learning for each application took less than a day of human setup time, followed by a few hours of AIQ runtime for blueprinting. Now, incremental blueprints after each new build take just an hour or two. The blueprinting process auto-adapts and re-learns the application so that even significant app changes are fully tested the day they appear in a build.

Changes are fully tested the day they appear in a build.

### QA Management Highlight

AIQ dashboards report successes and failures (which are also auto-created as Jira tickets). These are published to the dev team ahead of their arrival into the office each day. A QA automation engineer reviews the dashboards and writes detailed notes to the dev team on any issues that need urgent attention, such as a code regression or serious application failure.

### About AIQ

Appvance IQ is an AI driven, unified test automation system.

It delivers transformational productivity gains in test creation and execution via AI scripting and codeless test creation, and through unified functional, performance and security testing.

Appvance.ai is the leader in AI-driven testing, which is revolutionizing how software testing is performed. The company's premier product is Appvance IQ™, the world's first AI-driven, unified test automation system. AIQ empowers enterprises to improve the quality, performance and security of their apps, while transforming the efficiency and output of their testing teams.

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