

McAfee Transforms & Accelerates QA

with Functionize AI Testing Platform

McAfee was founded with a vision to create a safer digital world. A household name in cybersecurity, it is recognized for its comprehensive suite of products aimed at countering cyber threats. The company has had many successes, not the least of which is its acquisition by Intel in 2011 for \$7.68 billion, a testament to its value and influence in the cybersecurity domain.

In 2020, McAfee made a striking return to the public market, raising \$740 million in an IPO and valuing the company at approximately \$8.6 billion. This move further reinforced McAfee's enduring legacy and its role in shaping cybersecurity solutions for a digital age.

McAfee's Visionary Quality Assurance Team

The quality assurance (QA) team at McAfee is a diverse group of 40 engineers spread across the globe, and they are dedicated to perfecting the digital experience. Venkatesh Hebbar, Senior QA Manager, set his team on a mission to transform how QA is conducted in the digital ecosystem. A key approach for this was empowering manual testers with Functionize's cutting-edge test automation platform, essentially upskilling them into automation experts. Now, McAfee is setting new standards for efficiency and effectiveness in testing their software.



Our partnership with Functionize has marked a pivotal shift in our QA processes. We're navigating the complexities of global digital landscapes with unprecedented efficiency and precision. Our testing is dramatically accelerated, times reduced from hours to minutes, and our coverage expanded across global markets with agility. This leap in efficiency is not just a win for McAfee but a forward step in ensuring a secure digital world more swiftly and effectively.

Venkatesh Hebbar
Senior QA Manager

QA Excellence for Global Digital Complexities

McAfee's vast digital landscape came with intricate challenges - from nuanced purchase flows and subscription models to dynamic pricing. The new QA approach would have to cover 40 countries and over 30 payment methods, through retail, direct sales, partnerships and others. A key consideration would be how the new platform would support visual regression and localization testing.

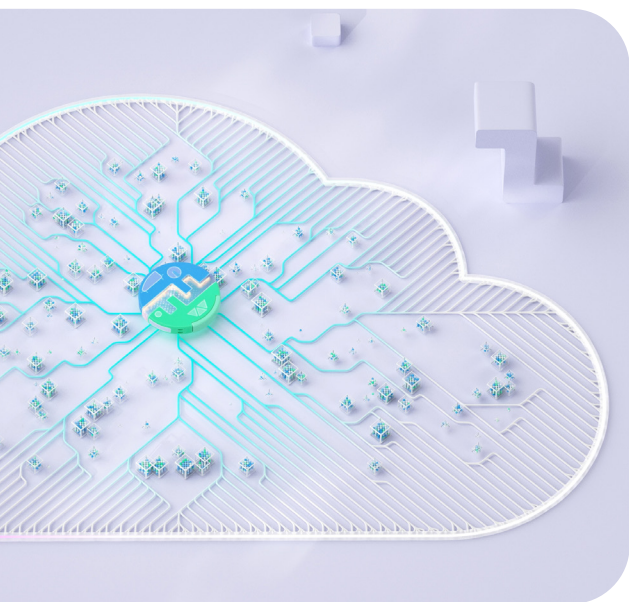
The team is committed to precision and agility, and they needed to deliver flawless user experiences across all digital touchpoints.

McAfee sought a partner that could level up its QA capabilities and address these complexities. The team needed a solution that could not only expand their coverage but also meet the demands of a rapidly evolving digital landscape. Enter Functionize, an AI-driven testing platform that promised to turn their ambitious goals into reality.

Functionize: A Game-Changer for McAfee

Functionize's blend of AI-powered functional automation, intuitive design, and support for diverse testing scenarios made it the clear choice. The platform's ability to effortlessly handle dynamic, international test environments created a new level of QA efficiency at McAfee.

A few examples of how McAfee has implemented Functionize in their workflows:



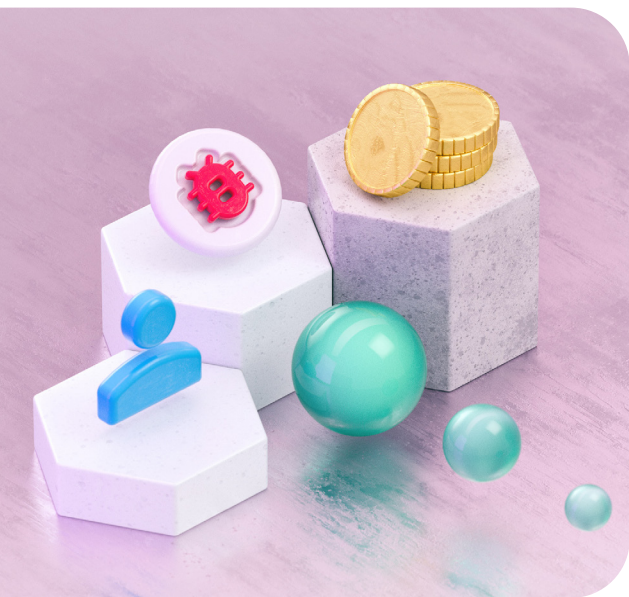
Use Case 1: Architecture Transformation to Cloud-based QA

McAfee leveraged Functionize's capabilities for a pivotal 18-month project - a monumental shift from on-premises infrastructure to a cloud-based architecture. This was a strategic decision geared towards enhancing digital experiences. Precision was key.

Functionize's visual testing solutions enabled

them to conduct extensive visual testing that meticulously compared on-premises pages with their cloud counterparts, the goal being pixel-perfect accuracy.

The results were transformative. McAfee not only achieved a successful digital migration but also gained significant efficiencies. The process saved countless manual testing hours, optimized resource utilization, and **expanded test coverage to an impressive 90%, and growing**. It was a noteworthy milestone in McAfee's continuous pursuit of excellence.



Use Case 2: Navigating Complex Payment Landscapes with Functionize

A significant challenge for McAfee was the complexity of integrating approximately 40 different payment methods into their checkout pages. The manual testing of diverse billing fields, auto-populated fields based on regions, complicated tax calculations, and zip code validations across countries was not only time-consuming but also prone to errors.

McAfee used Functionize's Test Data Management (TDM) solution for continuous data-driven localization testing, which provided an automated approach to navigating the complexities of international currencies, taxation, pricing, and inventory. Where previously the focus was on the top 25-30 countries, Functionize enabled coverage across all 40 regions. This approach led to the validation of 150 to 180 pages daily, which helped identify discrepancies against pricing sheets more efficiently.

Testing with Functionize now allows McAfee to support varied resolutions and platforms and quickly identify discrepancies. It proved to be an impactful way to use automation to overcome geographic testing challenges.

Use Case 3: Revolutionizing Regression Testing with Functionize

McAfee used Functionize's tunneling features for comprehensive regression testing

in pre-production environments. They were able to simulate real-world scenarios for various customer subscription types. This approach enabled testing of all the requisite end-to-end user journeys, from desktop app alerts to personalized web experiences. Every customer interaction is now meticulously validated.



This was a strategically significant shift that cut down testing durations drastically from 6-7 hours to just 8 minutes - a substantial leap in productivity. This newfound efficiency not only ensured tailored user experiences but also enabled McAfee to amplify its marketing efforts. The company can now launch double the number of promotional campaigns, including for major shopping events like Black Friday and back-to-school sales, which creates more revenue generation opportunities.

Looking Ahead: The Dawn of a New QA Era

McAfee is not just adapting to the future; it's actively shaping it. The journey with an AI-testing platform like Functionize is just the beginning. McAfee is fully embracing automation and paving the way for other teams and departments to leverage AI and GenAI testing solutions. They are pushing the boundaries of what's possible in quality assurance.

This case study is more than an example of collaboration; for us, it's a source of inspiration - a clear demonstration of how vision, innovation, and partnership can redefine the landscape of cybersecurity quality assurance. McAfee and Functionize together are not just achieving excellence - they're inspiring a movement toward a safer, more secure digital world.

