



SUCCESS STORY HIGH TECH

WIRELESS LOCATION-BASED-SERVICES FIRM OVERCOMES QE DETOURS

Apexon cuts QE cycle time from weeks to hours



This company provides automotive manufacturers with comprehensive mobile location services to deliver custom connected car experiences.

Search engine optimization was a core capability for enabling the latest connected car capabilities, but slow and inefficient quality engineering (QE) cycles were severely impacting the company's time-to-market for these new services.



FOUNDED IN 1999



FOCUSED ON BUILDING THE LARGEST NETWORK OF CONNECTED CARS ON THE ROAD



AWARDED TOP NAVIGATION PROVIDER IN THE SMALL AND COMPACT PREMIUM CATEGORY BY J.D. POWER



Apexon worked with the company beginning in 2015 for over two years. After performing a thorough analysis of all of the company's testing and QA processes, Apexon developed a QE solution that enabled the company to execute all test cases on multiple platforms for multiple regions and countries — with a single click.

THE RESULTS

KEY OUTCOMES



COMPREHENSIVE QE CAPABILITY

Ability to test code on all platforms and regions



60% FASTER TESTING CYCLES

Due to more efficient and automated processes



INCREASED CONFIDENCE IN TESTING

Fewer expert resources needed for testing with new processes for development and code check-in

OUR METHODOLOGY

THE DIGITAL LIFECYCLE

Apexon works with companies across the digital lifecycle.



GO DIGITAL

Accelerating the delivery of new digital initiatives with confidence



BE DIGITAL

Creating the infrastructure and foundation to scale digital initiatives



EVOLVE DIGITAL

Leveraging data and analytics to continuously improve digital delivery processes

LAUNCH & EXPERIMENT



AUTOMATE & ACCELERATE



BE INTELLIGENT & AUTONOMOUS

Enable digital adoption in a quick, and agile manner

Apexon assessed the company's existing QE processes and infrastructure to fully understand the problems and requirements before recommending a solution.

Build digital infrastructure and foundation for enterprises to scale

A custom framework enabled minor changes to the search engine SDK or API without significantly increasing QE efforts.

A real-life environment-enabled code testing on all platforms for all regions.

Leverage data engineering to make strategic decisions and get digital right every time

The Apexon team developed a metrics dashboard so the company could monitor and analyze performance issues in real-time.

THE CHALLENGE

SLOW AND INEFFICIENT TESTING AND QA METHODS

Performance measurement was a major roadblock to optimizing the company's search engine SDK and APIs.

Existing testing and QA methods were manual and inconsistent, delaying new releases and creating quality problems in market.

There were several factors involved including:



LONG TESTING CYCLES

Dependency on code check-in to measure performance resulted in longer testing cycles



SLOW PERFORMANCE MEASUREMENT

Taking two days on average to measure performance once new code was checked-in



DIFFICULT TO MAKE UPDATES

Even minor changes to the search engine SDK or API significantly increased these testing efforts



SLOW CODING

Measurement was limited to code for one geographic region at a time



LACK OF CONSISTENCY

Performance varied significantly in production versus lab environments

THE SOLUTION

BETTER QE AND TESTING FRAMEWORK

The company engaged Apexon to create a new QE/testing framework that would speed testing cycles and provide more accurate results.

Apexon started with a structural approach to break down the company's current testing capability into smaller problems so that each issue could be addressed effectively.



REAL-TIME TESTING

The ability to test cases in real-time and run tests at unit level rather than at code check-in.



REAL-LIFE TEST ENVIRONMENT

A controllable real-life environment to test variables such as CPU memory, network conditions, and more.



METRICS DASHBOARD

An intuitive metrics dashboard to monitor and analyze performance issues in real-time.



CUSTOM TESTING FRAMEWORK

A custom framework to test search engine SDK and APIs on platforms such as QNX and Android.

The end result was a streamlined solution that enabled testing for all platforms and geographic regions with a single click, dramatically speeding testing cycles and time to market for new connected car services.



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