



# Test Automation Solution for a Leading Enterprise Information Systems

## About The Customer

The customer is an enterprise information system, enriched with built-in AI to automatically categorize and protect the organization's information. They have about 100+ customers worldwide and their product was available in 33 different languages. They have an open architecture that supports the connectors to other systems and repositories. They have ranked as a "Leader" in the 2019 Nucleus Research Technology Value Matrix for Enterprise Content Management (ECM) consecutively for the past 6 years and recognized as a Visionary in Gartner's Magic Quadrant for Content Services Platforms for three consecutive years.



## Challenges:

- *Frequent releases caused regression issues*
- *Compatibility issues with a large set of Servers & Clients*
- *Time constraints during release cycles*
- *High flow of regression issues across release builds*
- *Difficulty in testing different databases and validating integrated 3rd party apps*
- *No time and bandwidth to test both at cloud & on-premises for all apps*

## The Need

Their product supports multiple windows products along with 2 versions of web and mobile that had about 8000 tests to run against different environments for each release, which is time consuming yet with limited testing scope. Each code changes as different products are tightly coupled with each other which made it difficult to perform regression testing. Frequent releases caused regression issues that ultimately affected a wide range of customers. Therefore, they were in desperate need of a testing expert who can automate their entire process to deliver the product faster in the market and achieve customer satisfaction.

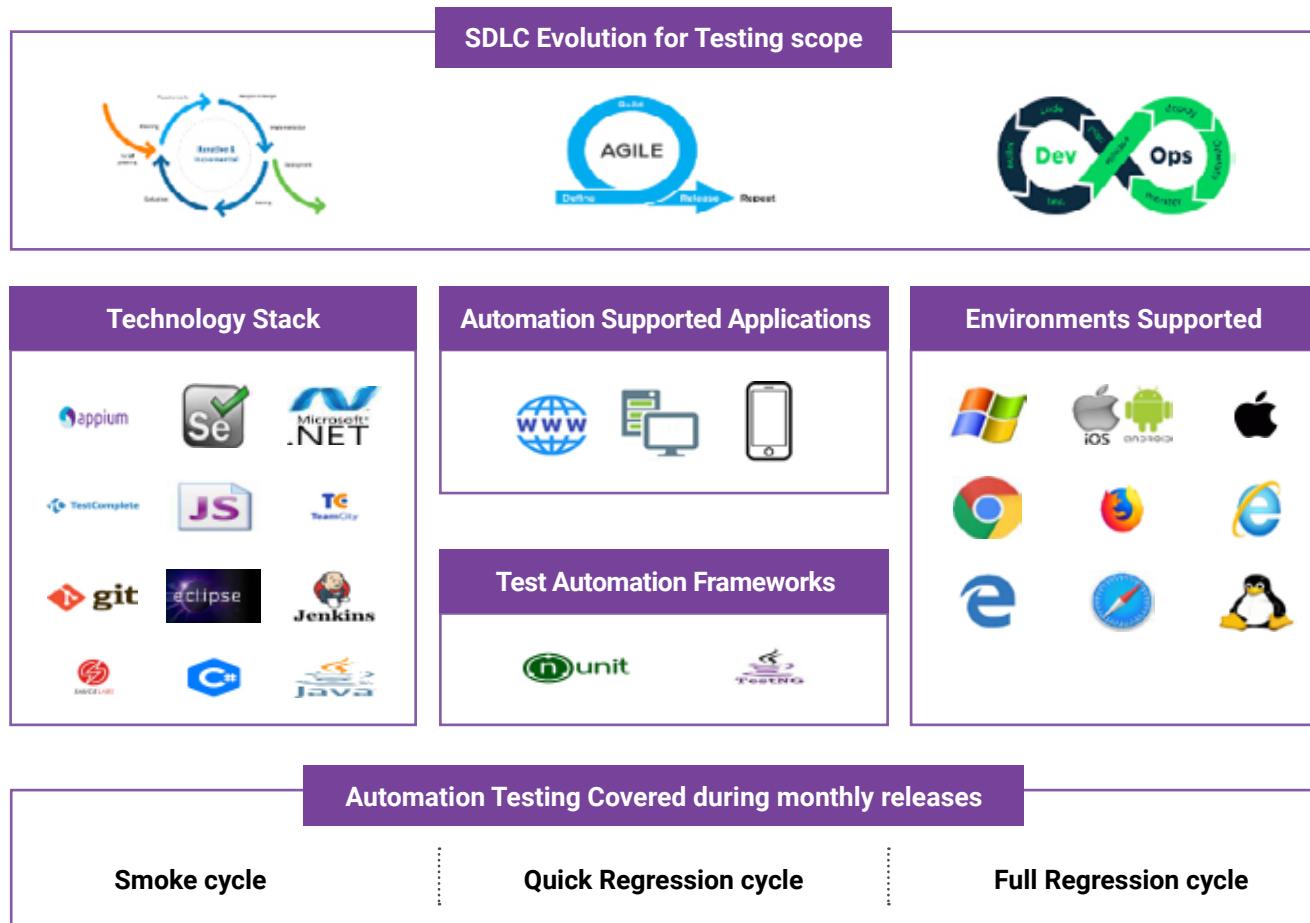


## Solution:

- *End-to-End testing using our automation strategy Hyper-Testing and framework AFTA 3.0*



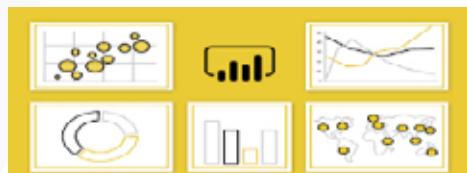
## How Our Automation Solutions Evolved at Different Stages?



### Automation Testing Covered during monthly releases

Databases	Protocols	External app Integration	Security Modes	Device Type & Layouts	Language support	Client/Server Compatibility	Build Deployment Mode
SQL Server Firebird	RPC gRPC	Enabled Disabled	Encryption Enabled Encryption Disabled	iPad iPhone Tablet Mobile Portrait Landscape	Finnish German French English Swedish	Latest 15 combinations of clients and Servers	Cloud Servers or On-Premises

### Collaborative Automation Test Report & Intelligent Automation Report Analyzer





## Results:

- *Faster time to market with quality*
- *Enabled multiple frequent releases*
- *More test coverage with less turnaround time*
- *Helped to automate custom applications built on product*
- *Automatic app deployment test generation process reduce efforts*

## Aspire's Solution

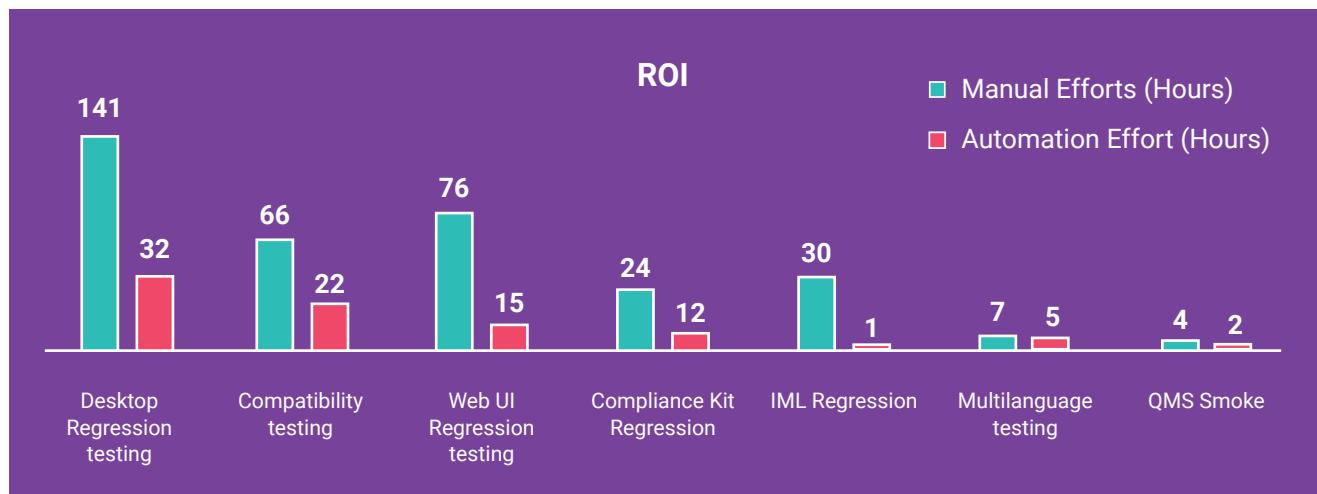
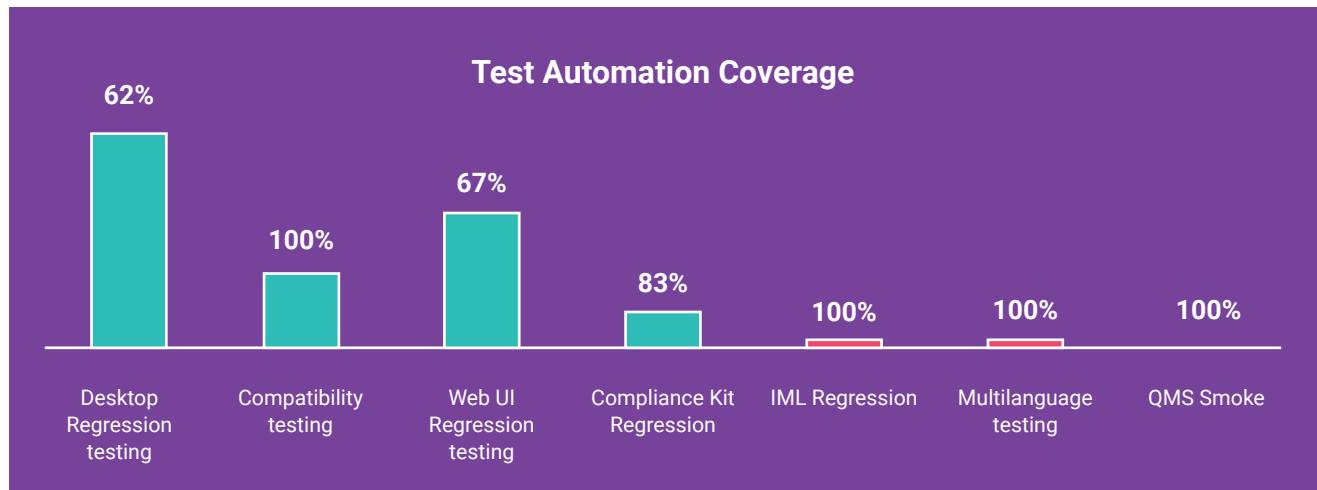
After analyzing the customer's requirements and current business situation, we developed a holistic solution based on our unique, multi-layered testing methodology, Hyper-Testing, and our home-grown Test Automation framework, AFTA 3.0. This has enabled to address customer's major challenges like testing multiple product features using common test suites and triggering these tests against every minor & major release to ensure high-quality product.

We developed 6580+ test scripts and took ownership of manual testing along with retesting existing bugs they fixed already. On every pre-release build, we scheduled entire regression covering Windows, Web, and Mobile products along with a wide range of test environments and product versions. We customized our solution to support other Windows-based applications (Compliance Kit and Quality Management Systems), thereby reducing time and cost for the new product automation developments. AFTA 3.0 has also helped the customer to have quick-release documentation in multiple languages English, Finnish, French, Swedish, and Dutch. The best part is that our holistic test automation framework, AFTA 3.0, is that it can be reused when similar products are developed based on end-user demands.

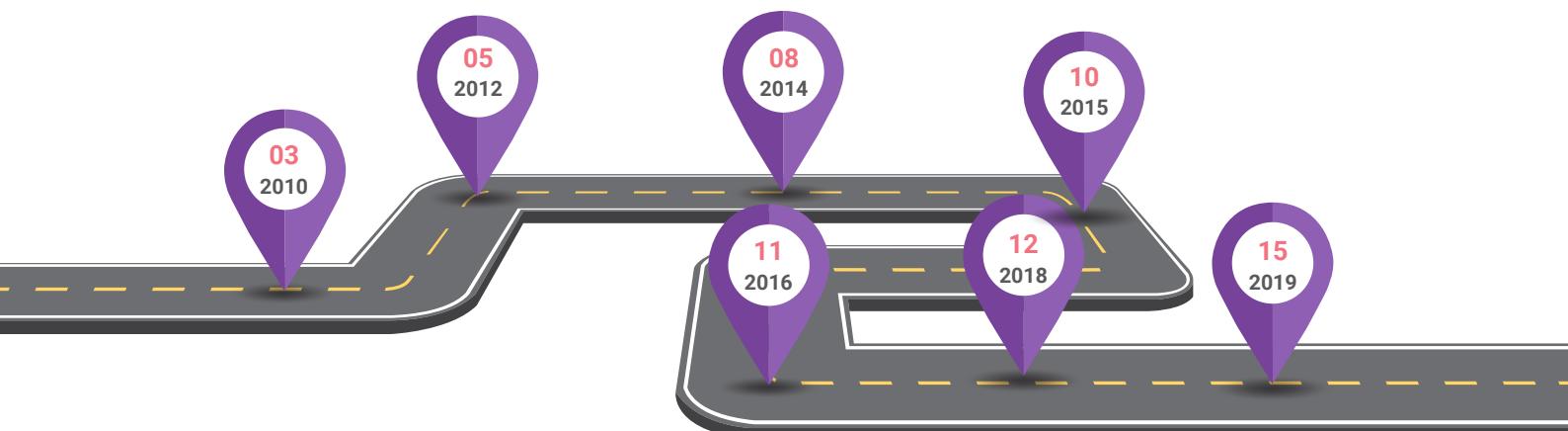




## How Our Solution Helped the Customer?



## How Did We Grow as a Team Over Years?

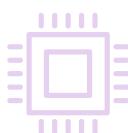




## Our Value-Add

Value-Add	Benefit for Customer	Impacted Quality Policy
Scaled Test Automation suites to support DevOps mode of releases	Cost & Time reduction	Flexibility in Test Automation Framework
Integration to CI pipeline and Automatically rotating test environments across different release cycles	Faster feedback cycle and Improved coverage	On-time Delivery, Quality Product, Improved Productivity
Reduced turnaround time through Parallel & Distributed runs	Quick Feedback on the Quality	Reduced Manual efforts & time-saving
Optimizing Test Scripts at regular intervals to reduce Flakiness during executions	Reduced QA effort to Analyse failed tests during execution phase	On time delivery with Quality
Capturing External app Performance statistics in real-time	Tracking performance trend and correcting ahead of releases	Product Quality and effort saving
Integrated ML-based Report dashboard with for Automatic Failure Analysis based on historical data	Provide insight into execution progress and quality trend across build/platforms and reduce manual efforts to analyze failures	Real-time statistics on the executions Progress

## Technology Highlights



- » Appium
- » Jenkins
- » Selenium
- » .NET
- » Sauce Labs



## Customer Testimonials

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*They are the best experts in the test framework that have really served us really well. I'm very happy with the testers in Aspire's QA team. As I mentioned earlier, there are many individuals in the teams that have been working several years with our company and they are very good experts. And not only that, they are also experts on the entire product so the competencies are integral on very good level may be in the test automation area.*



**Tero Piiraienn**  
Director, Software Quality  
Assurance

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Aspire Systems is a global technology services firm serving as a trusted technology partner for our customers. We work with some of the world's most innovative enterprises and independent software vendors, helping them leverage technology and outsourcing in our specific areas of expertise. Our core philosophy of "Attention. Always." communicates our belief in lavishing care and attention on our customer and employees.

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