



DARTENIUM™ *Cloud Based Test Automation*

The growing demand for sophisticated, fast-paced web development has posed challenges for independent testing services. This evolution has generated the need for flexible and adaptive testing automation solutions.

Datamatics' DARTENIUM™ is a high-productivity automation solution for web testing. DARTENIUM™ provides a set of features that accelerate the delivery of innovative web applications and offers complete control over the testing process.

Manual testing programs for web applications are time consuming, inaccurate and economically unviable. Leveraging the wealth of experience from numerous successful testing engagements and a skilled development team, Datamatics developed DARTENIUM™, a cloud based test automation solution for web applications. DARTENIUM™ was developed on open-source platform Selenium to capitalize on its multi OS & browser support.

Keeping in mind the evolving technology landscape, DARTENIUM™ is built to support latest Web 2.0 technologies such as Ajax, used extensively in applications today. In migration scenarios, framework dependency becomes a roadblock. DARTENIUM™ uses portable core Java scripts that are framework independent and can be used in isolation. Results from multiple client engagements show that DARTENIUM™ provides better control and improved accuracy in the testing process. With DARTENIUM™, test scenarios are developed faster owing to its seamless integration with continuous integration solutions. This accelerates the scripting process and makes DARTENIUM™ a framework of choice for fast-paced web-testing.

DARTENIUM™ is a high-productivity automated web-testing solution based on the Open Source Technology - Selenium

Datamatics' proprietary automation solution DARTENIUM™ fulfils two of customers' most critical goals
Faster time-to-market and higher ROI.

DARTENIUM™ - Benefits & Key Features

- Hybrid Framework – keyword and data-driven
- 35-40% reduction in scripting time by creation of GUI optimized, one-time automation pack
- 30% test cycle time reduction due to seamless integration with widely accepted continuous integration and test management solutions
- Ease of maintenance and portability owing to use of Java based scripting
- Minimal configuration required enabling better user experience
- Automation productivity of 35-40% enabled by auto-assist features
- 30% test cycle time reduction due to inbuilt configurable recovery scenarios and therefore better control over test execution
- Faster analysis of test results through “Result Viewer”

Why choose DARTENIUM™

- Higher automation ROI
- Improvement in productivity and reduction in maintenance cost
- Reduced cost of expensive resources and low learning curve
- Improved quality of end-product
- Early testing with lower cost
- Portable Scripts
- Test scripts are OS and browser agnostic
- Hybrid framework with optimized GUI and auto assist scripting helper
- Minimal automation skills required in preparing automation test pack
- Continuous integration with build tools allows repetitive testing
- High scripting productivity enables automation and manual testing simultaneously
- No framework dependency; scripts can be executed from any Java based IDE

Success STORY

A leading Health Care Insurance Provider in Australia wanted to consolidate multiple websites into a single website and subsequently add enhancements. Since an Agile project methodology was adopted, Regression Testing and Testing for multiple development and production environments were key requirements.

Datamatics deployed the DARTENIUM™ framework based automation solution for the project. DARTENIUM™ helped accelerate the script creation process, provided quick feedback of test results and automatically ran tests on different browsers using continuous integration, thereby meeting all project requirements. DARTENIUM™ has since been the client's preferred automation tool for future phases of the project.

QAI Review of DARTENIUM™

“Ideally, organizations do not want to invest in large tool sets, given two major shifts – Agile & Open Source Software. Given that the user computing has become a common order of the day, it is also essential to test our applications on multiple OS & Browser combinations. In fact, there are very limited set of tools that can provide an answer to the above context. DARTENIUM™ from Datamatics Global Services is exactly built to solve the above problems for a client. ***Drawing from the rich experience of Datamatics in Testing & Application Development, DARTENIUM™ is a robust, off-the-shelf-solution, designed to simplify both the regression and functional testing for organizations. We do believe after evaluating the tool, that this is certainly a meaningful investment for organizations looking at a solution for the test automation!***”

DATAMATICS Testing Services

Top Quality, High Reliability and Quick turn-around time

Datamatics Global Services offers a range of independent testing, verification and validation services that assure cost-effective, high-quality, reliable systems with short turn-around times.

Application Health Check Up	Business as Usual	Automation Factory	Specialised Testing
	Test Consultancy	Test Automation	Internationalization
Blue Printing	Business Process	Framework Development	Performance
Profiling	Unit Testing	Script Migration	Security
Code Analysis	User Acceptance		SOA
Code Coverage	Product Testing		Mobile
	Regression		BI/DW
	Migration Testing		

The AUTOMATION EDGE

Datamatics helps client accelerate product releases through its proprietary test automation frameworks – DARTENIUM™ and DARTS. DARTENIUM™ is a cloud based test automation solution and DARTS is focused on Automated Regression testing.

DARTS is a powerful automated regression testing solution that helps build robust test suites, leverage reusability and meet the needs of an fast-paced development lifecycle. It uses a keyword and data-driven hybrid framework for scalability and a robust execution engine that provides 100% test execution capabilities.

45% lower support cost with enhancement software quality and reduces risk	30% Shorter time to test	40% lower testing cost with Zero up-front investments	30% productivity enhancement leading to accelerated products release for automation projects
100% requirement traceability	Leverage time zone differences for faster turn-around	No investment in testing tools, training, labs or resources	Proprietary framework (with wizards and code generators) for scripting, execution and maintenance of test scripts
Zero critical defects leakage	Initiating testing activities parallel to development		
Proven structured processes and methodologies in testing	Appropriate tools, framework and high level of automation		

The **DATAMATICS** Advantage

End-to-End Testing Solutions

Datamatics brings end-to-end software testing capabilities to client engagements, ranging from defining a test strategy, devising an approach, test planning and execution, defect management, closure and documentation.

Beat the Deadlines

Datamatics has an impressive track record of achieving 96% on-time project delivery. Datamatics' focus on minimizing risks and improving productivity has helped several global enterprises move from meeting deadlines to beating deadlines.

Flexible Engagement Model

Datamatics' team works independently or as a seamless extension to client's team. Datamatics' processes provide customers complete control over the project through remote execution, multi-tier monitoring and sophisticated reporting mechanisms.

Track Record

Datamatics is a trusted partner to wide array of global clients including leading software companies, system integrators, telecom service and equipment providers, banking, finance and insurance companies.

About **DATAMATICS**

Datamatics is the preferred technology partner to leading organizations across the world, offering enterprise application services to help them achieve their IT transformation objectives. With a mature global delivery model, deep architectural expertise and best-in-class technology capabilities, Datamatics helps customers derive strategic value and maximize returns on their IT investments. With capabilities spanning fast-paced development, Open Source solutions, application roll outs, enterprise application integration, testing, maintenance and legacy modernization, Datamatics helps the CIO address challenges across the application life cycle.

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