Driving high performance and
cost effective solutions

Testing with Testadon

5 Types of Testing in One Platform! *Never Code Again!*

Albia® Testadon

Introduction

Testadon is pioneering testing platform software developed by Albia® which incorporates User Interface, Functional, Load & Stress, System, and Integration testing and simulation for web enterprise systems. It is based on Test Execution and Modelling Platform (TEMP) - an innovative concept for a test platform researched and developed by Albia®. Testadon allows business users and developers to create test cases without writing a single line of code or script, and then to model test cases using GUI tools. This means that new test cases can be created within minutes, and existing test cases can be modified within seconds. Testadon allows real-time monitoring. It includes automated report generation, and it allows running unbeaten test cases for any web enterprise system. Testadon saves enormous amount of development and maintenance time, and has a great ROI. Testadon provides tools and features for effective Continues Integration and Test Driven Methodology.

Albia® Testadon

5 Types of Testing in ONE Platform

Testadon is designed to allow up to 5 types of different testing to be carried out on the same platform:

- ✓ User Interface Testing
- ✓ Functional Testing
- ✓ Load & Stress Testing
- ✓ System Testing
- ✓ Integration Testing

This allows for testing activities to be smoothly executed, providing an extensive and creative environment for designing and running test cases.

Accelerate Testing

Testing process is accelerated, so that it takes minutes to write any complex test case, and then it takes seconds to perform any maintenance.

Cut the Costs

With Testadon you would be able to perform extensive testing with minimum budget. This is achieved with maximum automation of tedious tester's activities, making it easy to carry out any testing project.

Complete Automation

Test cases for 5 levels of tests can be automated and scheduled, making your testing project well structured and easy managed. Using Testadon human effort is only used for design; the rest is carried out by Testadon.

Plan

Each test case needs to be planned. Depending on the nature of testing, planning could be based on functional or non-functional requirements, or on results of previously executed test cases.

Design

Test cases can be designed using GUI tools without any programming or scripting. This gives a significant advantage for the tester, as any complex test case can be created in a short timeframe. This also improves test case maintenance, as any complicated test case scenario can be modified within seconds.

Configure

Testadon provides some configuration tools responsible for full test case/scenario management, test environment configuration and customization.

Run

Testadon test case execution engine is a complete end-to-end business rules and integration platform designed for running any number and any type of test cases simultaneously.

Acquire

Testadon provides innovative statistics gathering techniques together with monitoring and alerting mechanism.

Alert

Testadon allows sending alerts during run-time. This can be utilized for notifying interested parties when something goes wrong, and alerts can be sent through email, FTP, or local file system.

Measure

Testadon can measure any acquired results for all test cases during and after test case execution. This provides an extensive view with statistics for measuring test case results, which enables testers with a system snapshot providing a complete report of what has been accomplished during the testing.

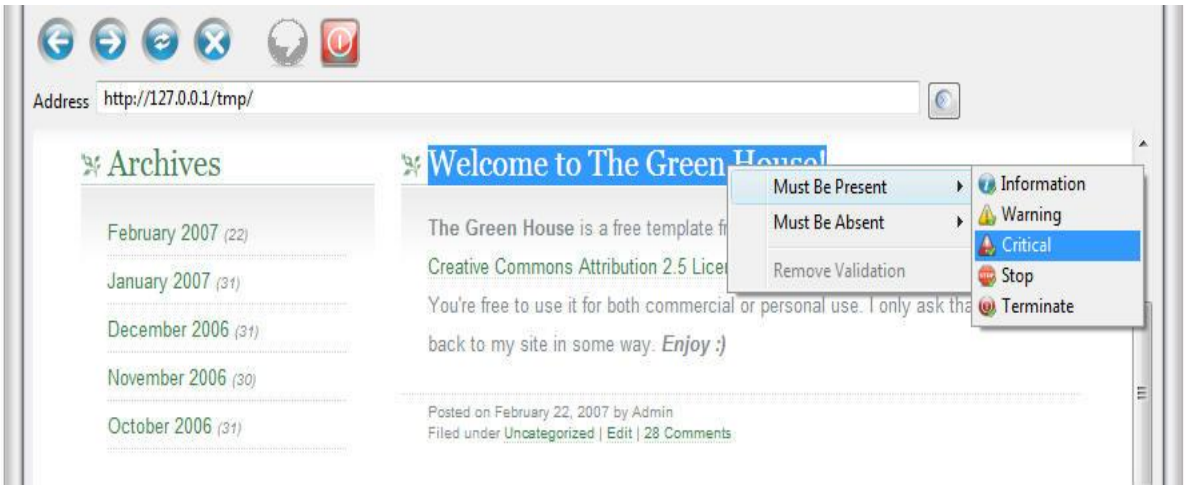
Testadon provides:

- ✓ ***User Interface Testing***
- ✓ ***Functional Testing***
- ✓ ***Load & Stress Testing***
- ✓ ***System Testing***
- ✓ ***Integration Testing***

User Interface Testing

For decades testing User Interface (UI) has been a challenge for many companies. One of the temptations with UI testing was to it manually: opening a website, browsing pages, checking graphics, verifying dynamic functionality, etc. The biggest problem with relying on human effort to detect bugs is that it highly depends on how much the person pays attention to detail, and if that person can repeat the same task every time the project needs re-testing.

Testadon provides a generic mechanism for writing and running UI test cases. It contains Web Browser where test cases can be recorded for a later playback. Testadon can validate and verify any web pages, check HTML tags, presence or absence of any web page elements, even download images. Testadon can turn UI testing into regression testing, helping to deliver higher quality systems, while making life of testers and developers easier. Testadon allows creating and running user-interface testing, with full test automation. Using Web Browser, test case author can create a comprehensive user interface test case scenario, which can then be executed on the platform



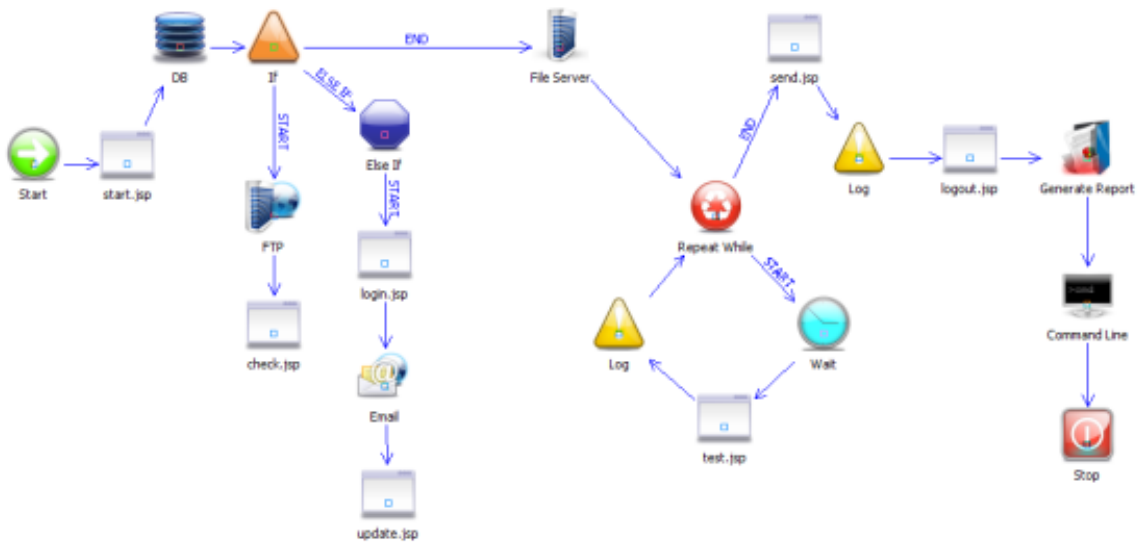
automatically. Validations can be set for checking presence or absence of web page elements, applying regular expressions, and other conditional rules.

Testadon also provides Modeller where recorded test cases can be modelled or edited, as well as new test cases can be created without the Web Browser (for instance in case end user wishes to write a test case before the system is created). User Interface (UI) Testing under Testadon can be fully automated, so that once a test case is created it can be ran as many times as required, mimicking end user activities, and applying validation and verification rules. While using Testadon Modeller it is possible to create decision logic, apply integration blocks, and set detailed validation

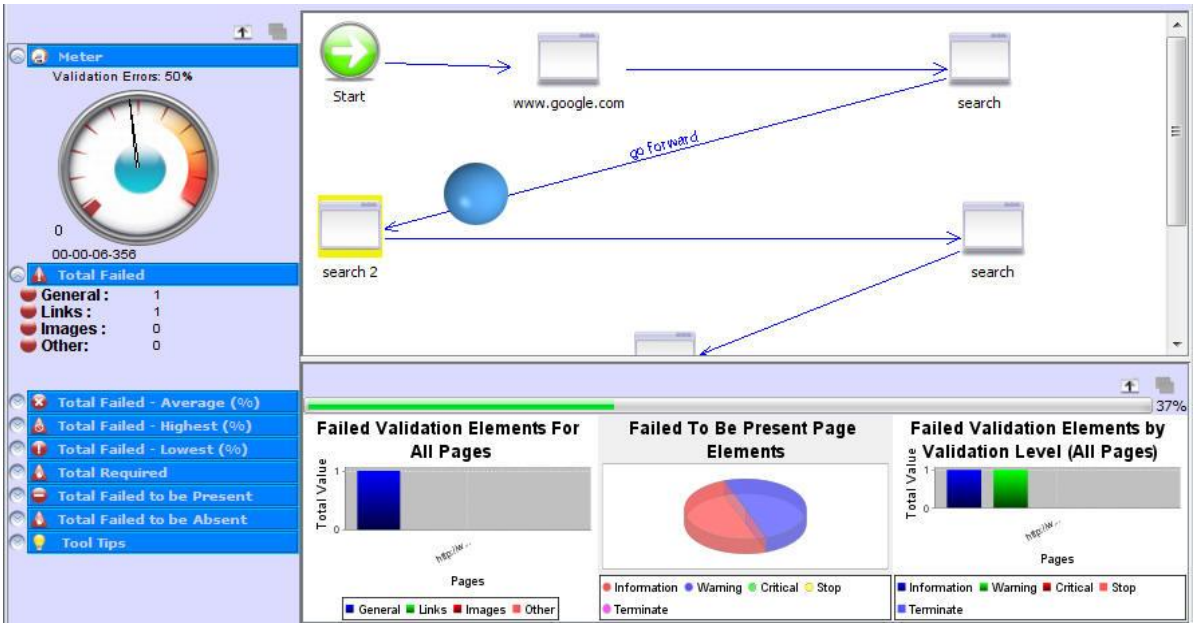
that is too impossible or tedious to be done by humans. Once a UI test case is created, it can be then scheduled and ran as many times, each time providing a detailed report. UI testing can be done as part of regression testing, ensuring that the system complies with set expectations, and alerting end users if it does not.

Functional Testing

Functional Testing is also known as black-box testing, release acceptance, QA testing, application testing, confidence testing, final testing, validation testing, usability testing, or factory acceptance testing. Normally it involves running a suite of tests on the completed system, where each test case is targeting a particular operation condition of the user's environment, which can be system's feature. The outcomes are usually measured as a pass or fail result. There is generally no degree of success or failure.



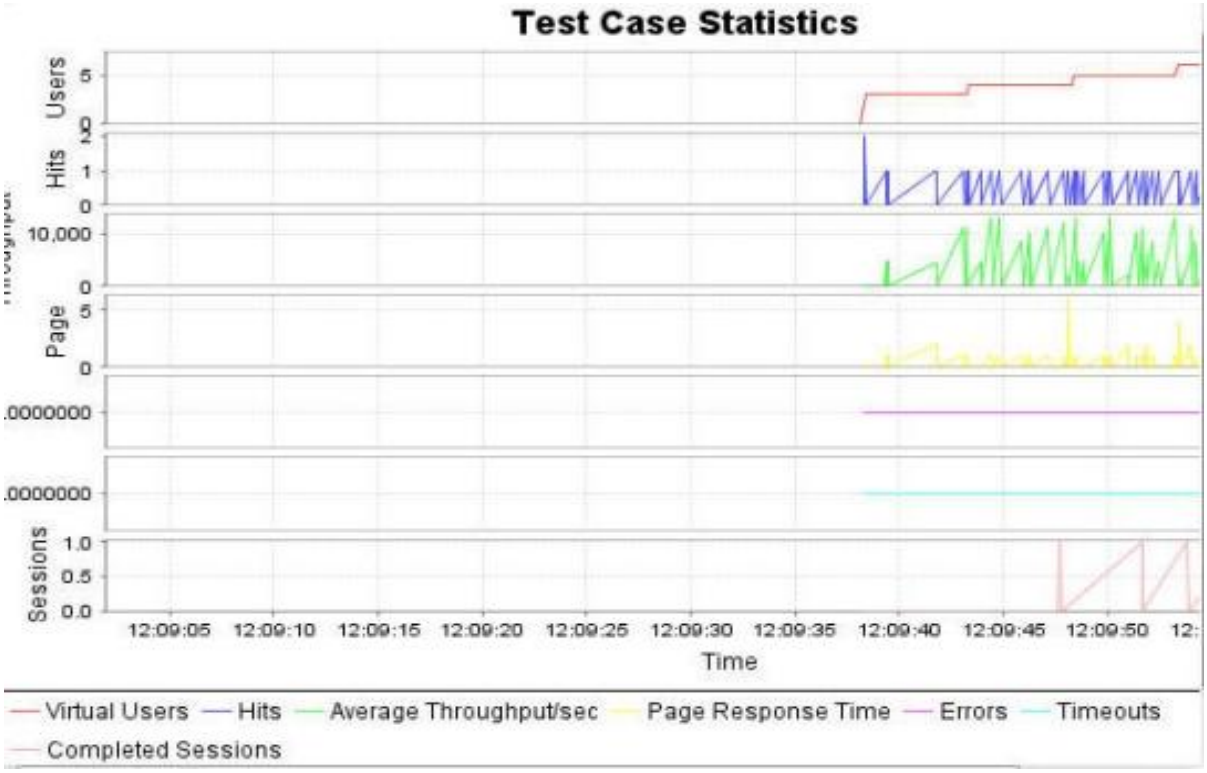
Testadon provides tools for different methods of inserting test input data, decision blocks for verifying systems' functionality, reporting, alerting, and monitoring mechanisms for ensuring Functional Testing gets executed in line with set criterion. Testadon can be used for creating and running Functional Testing. This includes writing test cases that test system functionality from the front end. It is also possible to write test cases that test different parts of the back-end of system under test, as long as integration adapters are available in Testadon, and if they are not Albia ® Professional Services can develop custom adapters.



Load & Stress Testing

Testadon provides full functionality for load and stress testing. Test cases can be recorded using Web Browser, then edited, and ran. Testadon offers real-time monitoring

- ✓ Unlimited number of virtual users
- ✓ Real –time monitoring
- ✓ Ability to run different load/stress test cases simultaneously
- ✓ Reports and statistics with diagrams and charts

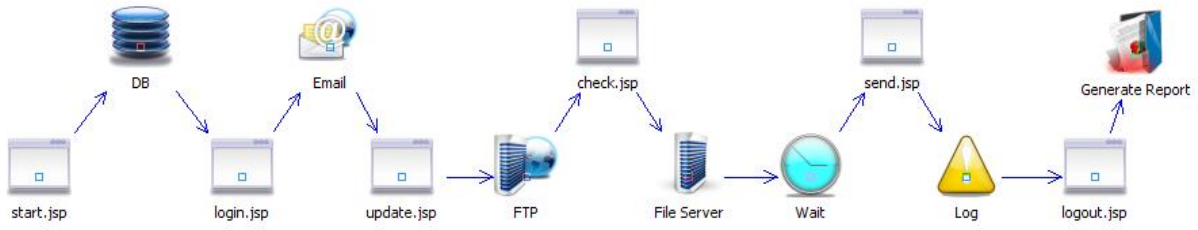


System Testing

Testadon allows performing functional, load, performance, functional, user interface, and integration tests at the same time. Under Testadon bulk of the regression test suite can be constructed and executed before any development takes place. No matter how complex or large an enterprise system can be, Testadon provides tools and environment for carrying out any system testing activities. Testing system as whole can be a long and tedious process. Testadon lets you set any destructive conditions and to test not only the design but also the behaviour and even the believed expectations of end users. It is also intended to test up to and beyond the bounds defined in the software requirements specifications.

Integration Testing

Integration testing is the level of test done to ensure that the various components of a system interact and pass data correctly among one another and function cohesively. Integration testing can be accomplished at various levels. Testadon allows for Integration Testing. The platform has many adapters that can be used for testing any standard enterprise system. Testers can validate system's required integrations as well as get a full report of what is going on inside of their enterprise system. At the lowest level, Testadon can be used to verity through running integration testing, that units of an enterprise system work properly together. Integration can occur at various levels, and Testadon has innovative tools for ensuring that integration complies with your specifications.



Testing Process

Testing web enterprise systems with Testadon is simple. First you create a test case. You can do this by either recording it using the built-in Web Browser, or design it using the Modeller where you have a palette of building blocks. Then you can optionally configure your test case, or go straight to the execution. During the execution you can monitor in real-time your test case having meters, dashboards, and charts. Upon completion you will get a detailed report that fully documents all results and metrics obtained during the execution: detailed results, statistics, charts, and diagrams. It’s that simple! You can optionally set alerts so that during the execution time you will be getting automated notifications in case something goes wrong. All scheduling can be done with a couple of mouse clicks. Any test case can be run whenever you need, as many times as you need. Testing can be really fun when using Testadon!

Test Driven Methodology

Testadon can be used for Test Driven Methodology. Using Testadon Modeller it is possible to create test cases for systems that do not even exist. For instance it is possible to design a test case that would test web enterprise system functionality without have a single web page online. Using drag and drop icons it is possible to design user browsing activities, set validation and verification rules, and even add validation blocks that connect to external systems such as databases, FTP server, SMTP server, or file system. Since Testadon Modeller is a visual tool where end user does not need to write a single line of code or script, it is possible to create any test case that can include decision logic (e.g. IF, ESLE, ELSE IF, REPEAT, WHILE, etc) enabling a detailed level of testing for the system before development takes place. This enables test driven methodology since test cases created and then ran in Testadon can guide development team's activities.

Tedious Tasks

For many years testing involved many tedious tasks performed by human testers. Testadon allows simplifying and automating many tedious tasks for different types of testing. The platform has the ability to automate creation, design, executing, and reporting for all your test types supported by the platform. Testers no longer will need to spend hours on doing something that the platform can do for them.

Test Execution

Testadon provides a unique environment for executing different types of test cases. The platform can run simultaneous test cases for all supported types of testing, for any number of systems. The execution engine can handle for instance load and functional test cases simultaneously. The engine has a rules engine, reports engine, and statistics generation engine that can execute, acquire, monitor, and report at the same time.

Test Documents

Testadon contains assimilated document flow that helps with the entire testing life cycle. From design to evaluation, the platform enables document generation and reuse, providing end users with full control over testing processes. Testadon gives an exclusive ability to auto-generate reports, based on test case design, configuration, acquired and measured data. A test case may contain procedures, design diagrams, configuration; however everything gets handled as XML files in the background, including run-time data and statistics. End users can generate reports in PDF, HTML, and RTF formats, while alerts can be in addition reports in those formats sent using SMTP, FTP, or file server protocols.

Automated Test Case Report Generation

Testadon provides automated test case generation, which means every time any test case or suite is ran - Testadon will generate the final summary test case report, as well as any other reports defined within a test case. Test case reports are customizable. Every summary report contains explanation of the test case, execution results, charts, and diagrams. In an IT consulting industry this can be used as a final customer deliverable. Within any company using Testadon this provides a complete documentation tool for testing projects. Reports are available in PDF, HTML, and RTF formats.

Testadon helps to measure:

- ✓ ***Number and type of errors remediated***
- ✓ ***Number and type of errors not remediated***
- ✓ ***Load & Stress testing specific benchmarks***
- ✓ ***User interface compliance***
- ✓ ***Integration testing benchmarks***

Test Log

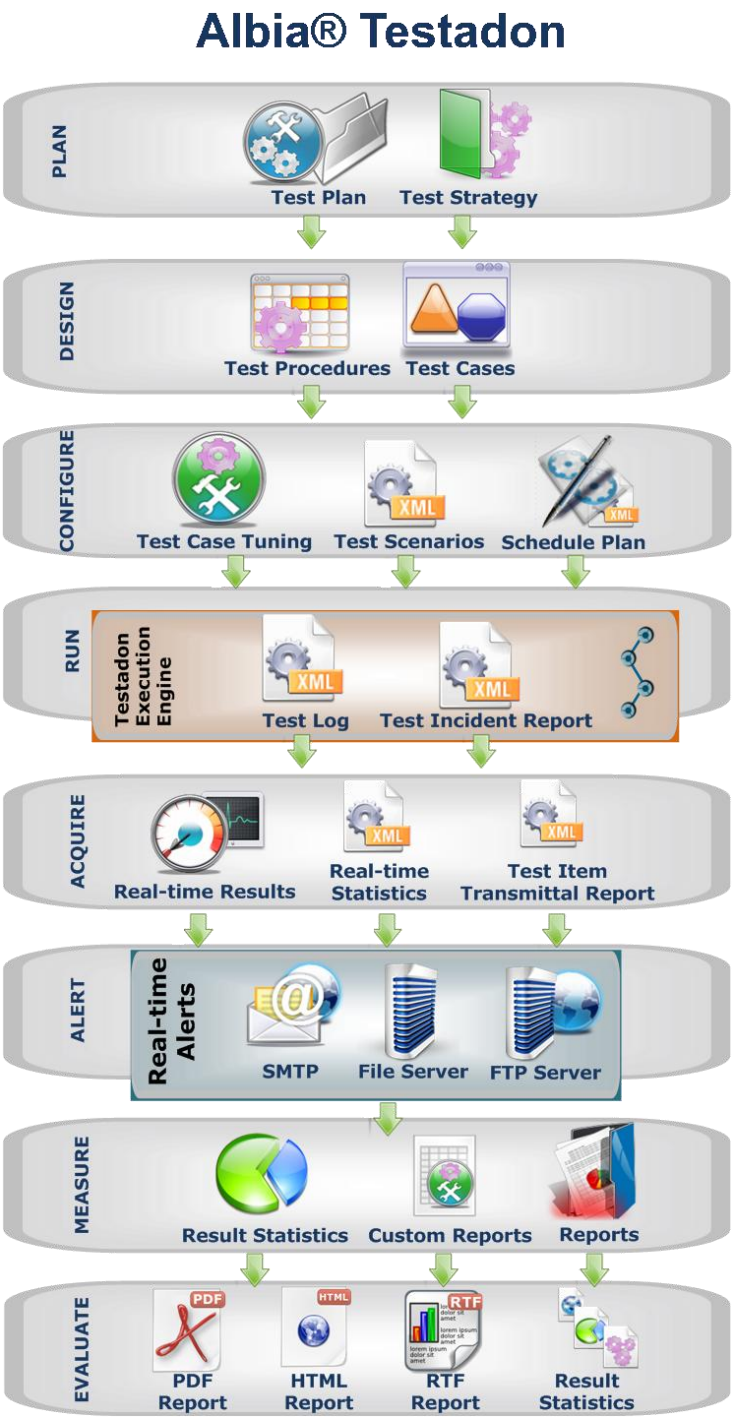
Testadon provides a comprehensive test log for all your testes. Analysis report includes also diagrams and statistics for any executed test case. By collecting test logs, testing teams can analyze and identify enterprise system problems. Test logs are generated for all supported types of testing in a very detailed level.

Measuring Test Effectiveness

Testadon provides enough of statistics, results, and metrics collected during running test cases so that test teams can then arrive at conclusions what is wrong with an enterprise system, and how to further address those problems.

By running test cases under Testadon it will be then possible to also identify if the test cases are indeed effective. It can happen sometimes that test cases were not written adequately to reveal problems.

If at any point you would notice that test cases are no longer effective, it would be possible to modify test cases using innovative Testadon GUI tools, where design and modeling for test cases is easy and fast.



Test Case Configuration

Test cases can be fully configured both for functional and load/stress testing. Any test case parameter is fully customizable, and test cases can be easily changed without having to recreate or re-record anything. Testadon provides GUI where end users can open any part of the test case and either though visual modelling or form style interface modify any part of their test case. Testadon allows setting different data feeds (custom files, random generation, invalid input, etc).

Why Choose Testadon?

> Albia® Testadon is the only platform where business analyst and non-programmers can create powerful and complex test cases!

Thanks to Albia® Testadon testers and business analysts can finally focus on testing without having to write a single line of code or script. That means that finally the main objective of testing phase is to detect what is wrong with the system, instead of spending weeks and months on developing test cases. With Albia® Testadon a test case can be written within 5 minutes, then modified within 20 seconds, all because we provide you with GUI where using your mouse you can create any test case

you want – either functional or load. Reports get automatically generated, providing full documentation of test case results with figures, statistics, diagrams and charts – so that the tester does not need to do much. Every time you run a test case, a report gets generated in PDF, HTML, or RTF formats.

- ✓ Choose Testadon today!
  *– Because testers should be **focused** on **testing** and **detecting** software bugs!*

- ✓ We provide training based on **YOUR** applications!
- ✓ We can be available for assistance during **YOUR** implementation of Testadon!
- ✓ We provide on-site assistance immediately after **YOU** get Testadon!
- ✓ We can send **YOU** our technical consultants to demonstrate and explain Testadon! (Please note this is subject to geographical area availability. Please check with us if we can visit you)
- ✓ Testadon conference is being held every year. Please check our schedule for out next annual conference!
- ✓ In case **YOU** require some extra functionality in Testadon to support **YOUR** personal needs, we can send our Professional Services consultant to customize Testadon for **YOU**!

24x7 Helpdesk

Albia® provides 24x7 Online Support, which includes assistance, access to our technical resources, help on all levels, and technical guide for all your queries.

- ✓ 24x7 Support
- ✓ Online assistance
- ✓ Dedicated technical engineers
- ✓ Professional Services support

Get in touch with our help desk today by logging at www.albia.biz

Training & Certification

Albia® provides industrial certification for Testadon that will help you to demonstrate your competency, dedication, and high standard of knowledge within software testing and Testadon.

- ✓ Testadon Associate
- ✓ Testadon Architect

Albia® conducts regular training courses, as well as on demand trainings at customer site.

Professional Services

Albia® Professional Services main mission is to ensure customer success, which is why we leverage business integration expertise to help our customers and partners become more self-sufficient in achieving, sustaining, and growing business results using Albia® solutions.

About Albia®

Albia® provides a broad range of business and technology services that deliver real business results.

Being an independent software vendor and IT services provider, we deliver innovative software platforms and integrated enterprise systems. By establishing long term partnerships, we work towards the success of our clients in Europe and the Middle East.

With headquarters in Sarajevo (Bosnia and Herzegovina) we cover many private and public sectors by bringing agile solutions delivered by top consultants with specially designed methodology. Our proven technologies and solutions help our customers to grow, be competitive, and get to the next level faster!

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