



Driving high performance and  
cost effective solutions

## Test Execution and Modelling Platform (TEMP)

Software Testing Platform

Albia® TEMP



## Introduction

Test Execution and Modelling Platform (TEMP) is a new technology developed by Albia®. TEMP allows business users and developers to create test cases without writing a line of code or script, model test case using GUI tools, then schedule, execute, monitor, alert, and acquire results. TEMP is a concept that allows multiple types and levels of executing testing for any enterprise system using one platform. It allows creating test cases within minutes, then carry out any maintenance within seconds. TEMP is a platform that can fully automate 95% of testing activities. TEMP saves enormous amount of development and maintenance time, bringing huge Return of Investment (ROI) to any organization implementing it.

## Purpose of TEMP

TEMP brings a complete platform where technical and non-technical users can create and execute tests. All processes have been optimized and automated, so that minimum human involvement is required for testing enterprise systems.

With TEMP you can simply plan, design, configure, run, acquire, measure, and evaluate without involving big testing team. Any activity that a tester needs to perform can be also done by a business analyst with TEMP. This is due to the fact that no programming or writing scripts is required for creating and executing complex enterprise system testing activities.

## ZERO Coding

TEMP is resolving most of the traditional testing platforms problems. It aims at allowing test cases to be generated without any scripting or programming, so that not only technical testers, but business analysts can leverage from creating test cases.

## 5 Types of Testing in ONE Platform

TEMP 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

## Test Execution and Modelling Platform (TEMP)



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

## Test Execution and Modelling Platform (TEMP)



### 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 TEMP 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 TEMP human effort is only used for design; the rest is carried out by TEMP.

## ROI

TEMP consists of innovations that will bring huge savings for any organization performing tests of enterprise systems. On average it takes at least 30% of time and effort to test any software development project. This can be cut up to 90% when using TEMP.

# Test Execution and Modelling Platform (TEMP)



## TEMP Main Areas

TEMP Consists of 6 main areas, each bringing some unique innovations to traditional testing processes.

### 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.

### Configure



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

### Run



TEMP 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

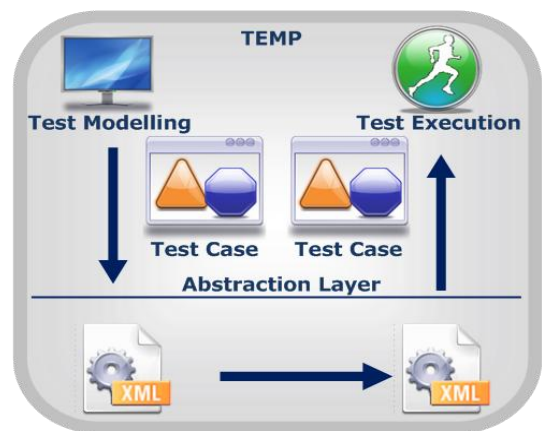


TEMP provides innovative statistics gathering techniques together with monitoring and alerting mechanism.

### Measure



One of TEMP's responsibilities is to measure any acquired results for all test cases during and after 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.



## Testing artefacts

TEMP provides several testing artefacts that enable testers to have full automatically generated documentation for any complex test case. It includes reports, statistics, diagrams, charts, input/output, events, and actions, expected as well as actual results.

## TEMP Architecture

TEMP architecture allows for full testing automation. Main advantage is that end users can record test cases without having to write a single line of code or script. Test cases get auto-generated, after which any test case can be run in the execution engine. The platform provides with scheduling and reporting mechanisms. Full statistics are being generated in run time, making it possible to observe what real-time results and statistics using meters, graphs, and dashboards.



## Test Case Generation

Test cases are automatically generated inside of TEMP so that testers do not need to worry about writing any code or scripts. TEMP provides a fancy GUI designer and modeller where any complex test case can be designed, allowing TEMP to generate a test case which then can be executed on TEMP run-time engine.

## Regression Testing

TEMP can be extensively used to solve many standard regression testing problems, such as when GUI significantly changes across versions of the application. TEMP provides GUI tools that allow smooth and easy test case maintenance, making it as painless for the testers as possible.

## Running the Test Cases

TEMP contains an execution engine capable to run any number and any type of test cases simultaneously. This allows for scheduling and running any 5 types of testing as one test case

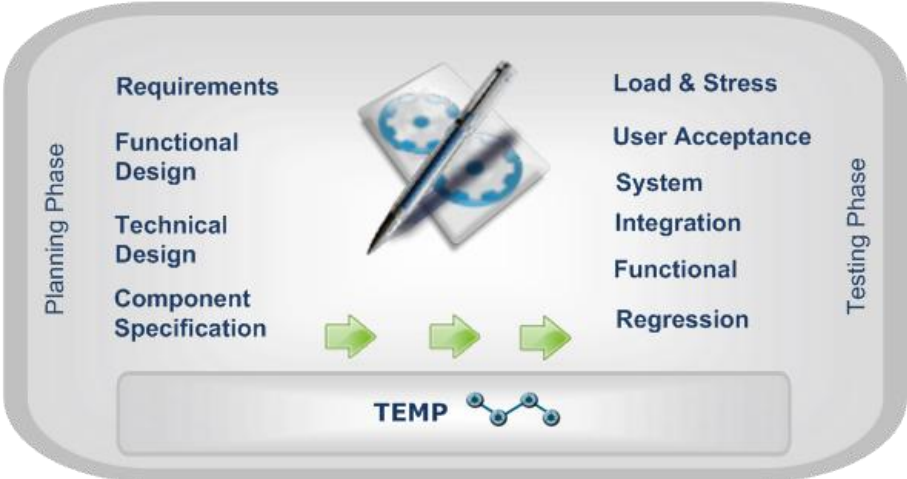
scenario (e.g. load testing can be simultaneously executed with functional testing). TEMP automatically performs validation, gathers results, and generates statistics and reports for all tests. TEMP executing engine consists of a platform that has a business rules engine with an integration platform capable to test any complex enterprise system.

### Automated Testing

TEMP comes with Automated testing, which allows any types of tests to be executed 24/7 without the need for a continuous presence of people. Any repeatable activity (such as regression testing) can be automated and executed as many times per day/night as required.

### System Testing

TEMP allows performing functional, load, performance, functional, user interface, and integration tests at the same time. Under TEMP 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, TEMP can provide tools and environment for carrying out any system testing activities.



### System 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. TEMP allows for System Integration Testing (SIT). 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, TEMP can be used to verify through running integration testing, that units of an enterprise system work properly together. Integration can occur at various levels, and TEMP has the right tools for ensuring that integration complies with your specifications.

### User-Interface Testing

No doubt it has always been a challenge to test User Interfaces (UI). Companies have been relying on testers, sometimes not technical, to test graphical interfaces such as web pages. But humans are prone to errors, and when the same pages have to be tested over and over again, human testers tend to forget or miss out things, resulting in numerous bugs and errors. TEMP provides a generic

mechanism for writing and running UI test cases. It provides a web browser where validation conditions can be recorded once, then execution engine where requirements can be validated and reported. TEMP can validate and verify any web pages, check HTML tags, presence or absence of any web page elements, even download images. TEMP can turn UI testing into regression testing, helping to deliver higher quality systems, while making life of testers and developers easier. TEMP allows creating and running user-interface testing, with full test automation. Using a simple 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.

### Regression Test Generation

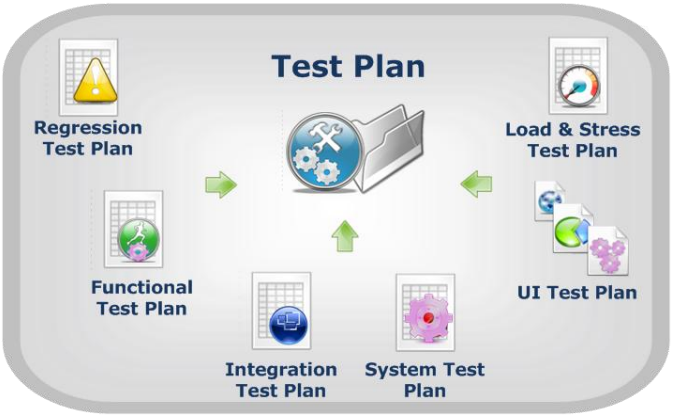
Very often regression testing is handled by a software quality assurance team, which happens only after a development team completes their work. The cost of fixing bugs at this stage can be very high, therefore it is highly recommended to have regression testing done during the development phase. When it comes to regression testing, many companies even our days either don't automate their regression testing, or they don't do it at all, resulting in poor systems and high development and maintenance costs. TEMP provides tools and mechanisms for generating and running regression testing, helping both testers and developers to deliver high quality enterprise systems. With TEMP regression testing can be smooth and easy, allowing creating, designing, scheduling, and then running test cases automatically. TEMP can be used for regression testing allowing running tedious and repetitive testing activities and detecting bugs and errors before any code reaches the software quality assurance team, saving time and money and allowing producing high quality software.

### Software Performance Testing

TEMP allows running test cases that can determine how fast some aspects of an enterprise system perform under a particular workload. TEMP can reveal if the system meets performance criteria. Detailed reports that contain statistics produced after each testing can be used to compare two or more systems or segments of the same system to find which performs better. TEMP can also be used to measure what parts of the system or workload cause the system to perform badly.

### Test Deliverables

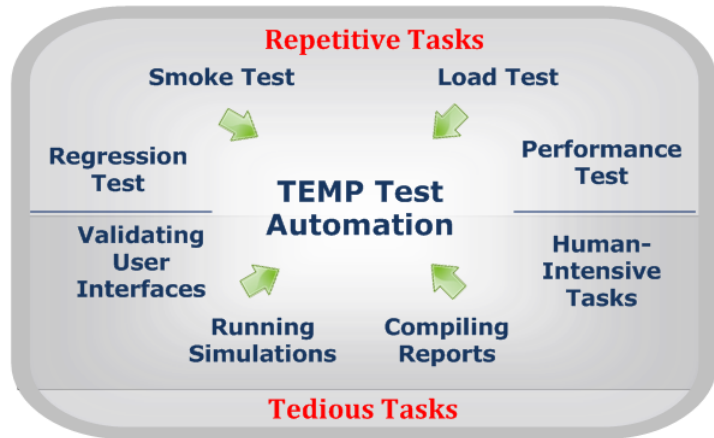
TEMP allows automated generation of many test deliverables, including reports, statistics, diagrams, charts, etc. The platform also includes different delivery methods: file system, FTP, and SMTP. TEMP can generate customized reports, test summary reports, test log, test incident reports, test data, summary report, etc. Using TEMP it is easy to organize all test project artefacts and to painlessly manage them. Test cases are saved as XML files, and any execution gets recorded into TEMP test case repository. TEMP is designed to provide all essential test deliverables. Automatically generated reports can be used by professional testers and consulting firms for delivering their final test results. Test logs, charts, graphs, statistics, and test activity logs will show



full testing results, providing full documentation that test teams usually need. Upon TEMP test deliverables it will be easy to diagnose enterprise system problems, finding problems and solutions to them faster.

### Repetitive Tasks

Any testing involves many repetitive tasks. TEMP allows automation of all main testing activities, making execution of any repetitive tasks an automated motion. This allows testing teams to save time and effort on something that can be performed by the platform. Scheduling mechanism allows test cases running inside of TEMP to perform their work at any time you need, as many times as you need.

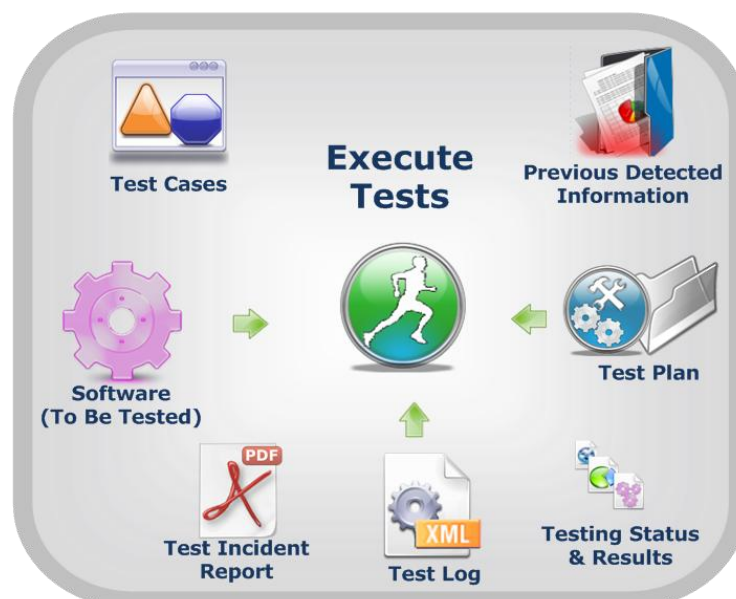


### Tedious Tasks

For many years testing involved many tedious tasks performed by human testers. TEMP 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

TEMP 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.



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- ✓ Online assistance
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- ✓ Professional Services support

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- ✓ Testadon Architect

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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®**

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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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ALBIA d.o.o.  
Azize Šaćirbegović bb.  
Sarajevo, 71000  
Bosnia and Herzegovina  
[info@albia.biz](mailto:info@albia.biz)  
Tel: +387 33 664 577  
[www.albia.biz](http://www.albia.biz)

