



TOSCA Testsuite

Automated Software Testing,
Test Management and Quality Assurance
Increased Testing Efficiency and Effectiveness



TOSCA Services & Education

TRICENTIS offers a complete testing solution for business and technical purposes, including strategy, integration, extension and infrastructure. We support you with technical and business solutions as well as best practices - from the initial installation of TOSCA Testsuite to its implementation into your project and system environment. We provide our customers and partners with a comprehensive, multi-stage training and Get Certified program. The content of our training courses will be tailored to your requirements. In addition, see our website for a list of TOSCA Certified Implementation Partners.

TOSCA Award-Winning Support

Reliable, quick and competent: these are the goals that we have been putting into practice for many years. In addition to free telephone and e-mail support, a ticketing system and telephone conferences we also provide a Live Chat, which is available to customers, prospects and partners.

- Constant first level solution rate of above 88%
- 95% of incoming telephone calls are answered within 5 seconds
- 99% availability - we are there for you 24/5 in your local time zone
- Qualified first response within 4 hours
- 99% of our customers extend their maintenance agreements

About TRICENTIS

Since 1997, TRICENTIS offers cross-industry expertise in all aspects of software testing and software quality assurance.

TRICENTIS developed and introduced the innovative and technically superior solution for software testing, test automation, and risk assessment - TOSCA Testsuite.

Over 300 TRICENTIS customers worldwide rely on the power of TOSCA Testsuite, its methodologies and Best Practices. For more information, please visit us at www.tricentis.com.

TRICENTIS Customers

Allianz Suisse, Alpha, ARZ, ASB, Berenberg Bank, BMW Group, Commerz Real, DB Schenker, Drei-Banken-EDV, EVN, GBST, Gematik, Huk-Coburg, Imtech, itSV, keynote, Landesamt für Finanzen (Regional Financial Authority), MA14, Metzler IT-Services, New Zealand Customs Service, Das Land Niederösterreich (Lower Austria), Otto, Payback, Pöttinger, Raiffeisen Capital Management, Roads and Maritime Services, RP Data, Schufa, Siemens, SIT Solutions, SWM, SwissLife, Tecan, Tegel, Trax, TVNZ-Television New Zealand, Vienna Insurance Group, voestalpine, VR Leasing, Wellington City Council, WGKK, and many more...

Customers About Us

"TOSCA's excellent support for incremental test automation gives short feedback cycles with real results, which has provided us with clarity and accurate insight into our progress throughout the project. The collaborative and iterative nature of our engagement with TRICENTIS lead to a successful outcome of the project and fitted well with the team oriented culture of our organization."

- Charles O'Reilly
Head of Project Development & Implementation, GBST

"The ease of use of TOSCA allows our test team to focus on the specification of business-based test cases instead of dealing with technical issues."

- Jens Einhaus
Test Automation Project Manager, BMW Group

"Thanks to TOSCA Testsuite™ the test cases and test results are always available in real time and are fully transparent, interpretable and traceable."

- Yvonne Schmid
ICT Testmanager, Allianz Suisse

Why TOSCA?

- ✓ Model-Based, Next Generation Approach
- ✓ End-to-End Testing Solution
- ✓ Business Dynamic Steering
- ✓ Empowers Non-Technical Users
- ✓ Quickly Create Automated Business Test Cases in Plain English
- ✓ Configure One Test Case for Multiple Operating Systems, Browsers and Smart Devices
- ✓ Reuse One Test Case for Different Technologies and Platforms such as GUI, Non-GUI, JAVA, .NET
- ✓ Certified Integration with SAP®
- ✓ Integration with popular Application Lifecycle Management (ALM) Solutions, such as HP, IBM, Polarion etc., Defect Tracking, and other Testing Solutions

Key Benefits of TOSCA

- Achieve test coverage of up to 95%
- Increase test automation up to 90%
- Reduce costs by 50% or more
- Reduce your time-to-market
- Outsource yet keep control over quality

The TOSCA Family

TOSCA Testsuite is the basis for all TOSCA testing solutions and delivers test management and automation, risk-based testing and test case design, reporting, dashboards and much more.

TOSCA@data: Test Case Design allows you to generate synthetic data and achieve significant cost reduction.

TOSCA@BigData: TOSCA@BigData is a powerful solution for automating and managing software tests for Data Warehouses and Business Intelligence Systems.

TOSCA@SAP enables highly efficient and advanced test processes in SAP environments.

TOSCA@Mobile: Automate Your Mobile Device Testing - for more than 3,000 Mobile and Smart Devices.

TOSCA X-Browser: With TOSCA you are able to create test cases for any browser and run them on all supported browsers. We call this "Build once and run".

TOSCA Agile covers of the key elements of agile development for early automation and meets all the technical challenges.

ALM Integration: TOSCA's powerful AddIns enable the integration of ALM systems such as HP, IBM, Polarion etc. and/or defect management systems such as JIRA etc. within days.

Test Case Design: TOSCA Test Case Design is designed to work with all technologies. Along with test automation and test data management, Test Case Design will help you optimize your ROI.

Test Management: TOSCA supports you in creating efficient test cases on a methodologically sound basis, serves as an execution assistant and summarizes the test results in meaningful reports.

Manual & Automated Testing: Unlike other test solutions, TOSCA Testsuite delivers a single administrative interface for manual, semi-automated, and fully automated test cases.

The Challenge

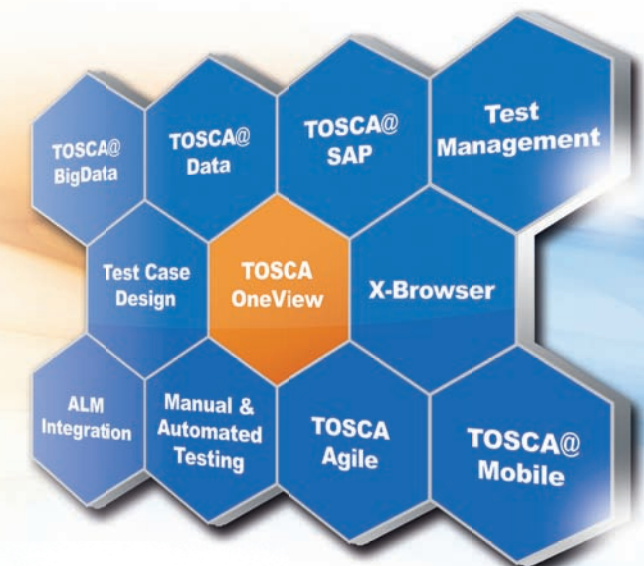
The costly maintenance of scripts and frameworks has always been a stumbling block for widespread test automation. However, this is over now, because TOSCA completely eliminates the root cause of the problem: static test scripts.

The Solution

Improved software quality with minimal effort and easy handling. TOSCA Testsuite makes the fast and cost-effective execution of automated software tests possible.

TOSCA OneView: One Universe for Testing Excellence

- One language to describe manual and automated test cases (both UI and non-UI) in plain English!
- One-Click Automation: move quickly from manual to automated tests
- One end-to-end testing process for all types of testing



End-to-End Optimized Test Process in TOSCA:

TOSCA Testsuite provides optimal support of the entire testing lifecycle from Requirements to Reporting, using paradigm shifting methodology.

Paradigm Shift I: From Number of Test Cases to Optimized Test Coverage

TOSCA's approach:

- Meaningful test reports show the business risk of implementation
- Save up to 90% of test cases without losing test coverage!

Paradigm Shift II: Business Dynamic Steering

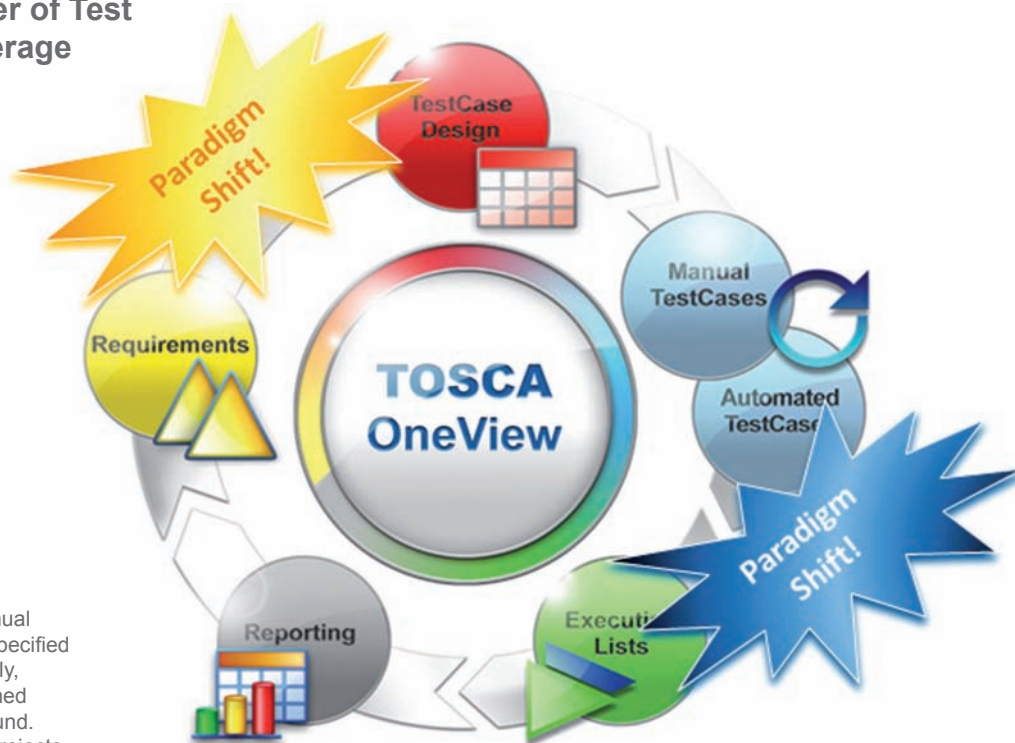
TOSCA's approach:

- Test cases in plain English empower non-technical users
- Easy transformation from manual to automated test cases

Business-Based Test Cases

TOSCA's heart and soul is its unique "Business Dynamic Steering", which allows manual and automated test cases to be designed and specified in a purely business-based way. More importantly, the automated test cases can easily be maintained by testers who do not have a technical background. TOSCA enables software quality assurance in projects with limited resources tight deadlines and cost pressure – for older and established as well as the latest technologies.

Test Management



TOSCA's OneView Technology provides leap-frog advances in software testing, software management and test automation technology, which is easy to use and delivers a robust, cost-effective, and scalable solution that sets TOSCA apart from its competitors.

TOSCA Testsuite Key Features:

- Automated and manual tests
- Test data management
- Test management
- Integrated systematic test case design and Requirements Management
- Business-based test automation
- Automated Web Testing
- Smoke Testing
- Regression Testing
- Automated Cross-Browser Testing
- Automated Mobile/Smart Device Testing
- Flexible reporting functionality generates appropriate reports for various demands
- Modular architecture: easy to customize and extend
- Web access (via a browser) without active-X components
- Multi-user functionality with an integrated check-in and check-out mechanism as well as versioning
- Traceability from requirements through test cases to execution results or defect status
- De-coupling of test tracks by allowing business-based test cases on an interface or protocol level
- Calculation of test coverage and risk-based testing
- Sophisticated recovery functions

TOSCA Integration:

- Functional tests for GUI and non-GUI applications and hardware components
- Cross-platform test cases (end-to-end)
- Easy integration with ALM tools (requirements and defect management)
- JAVA Application Testing
- Silverlight Application Testing
- Third party .NET Supported Testing
- WPF Testing
- Bi-directional communication with MS Excel and MS Word
- PDF comparison
- Integration with HP, IBM, JIRA, SAP, and many more

Model-Driven Testing with TOSCA

TOSCA is a third-generation technology using a model-based approach, unlike first and second generation technologies such as record/replay tools, or tools that require test automation frameworks (script-based technologies). Some of the core business benefits of model-based testing over script-based testing are:

- Lower total cost of ownership
- Speed to market
- Improved quality
- On demand staffing

TOSCA uses a non-graphical model to make test automation more efficient. The TOSCA model is derived from the software build itself (in particular its interfaces) and presents an abstract interface catalogue (system model). This allows testers to create test cases that are maintained in a human-readable "business" language without having to take the underlying software technology into account.

Test Case Design

In TOSCA Test Case Design, you will find everything you need for highly optimized test case generation that remains easy to understand:

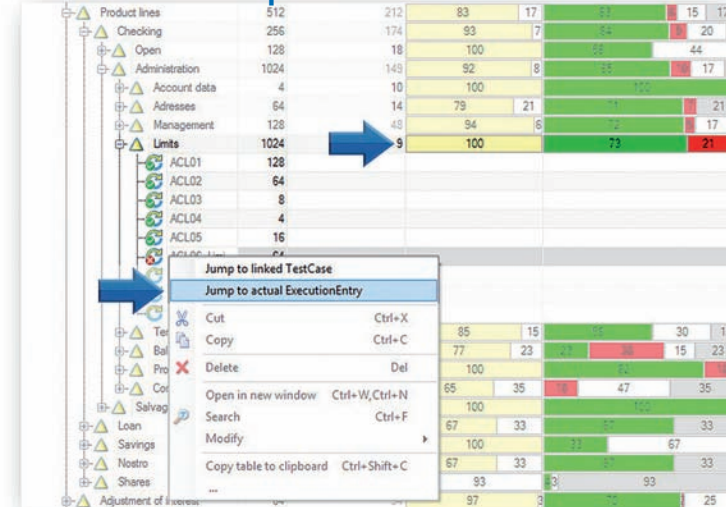
- Creation of equivalence classes from the various sources
- Automatic generation of combinations
- Modular concept: reusable data and process structures
- Derivation of test coverage of individual test cases
- Filter and search function for the perfect overview
- All the information is clearly displayed on a single screen

The benefit: Optimized efficiency and increased test coverage.

Automated Testing Made Easy!

Owing to its unique architecture, TOSCA allows you to automate existing manual test cases – and transform them into automated test cases. Automated tests in TOSCA Testsuite can be created and executed without any technical skills. As a side benefit of dynamic steering, the test becomes what it always should have been: a business-based task. TOSCA OneView enables the creation of automated test cases which can be reused on different platforms, such as Mobile/Smart Devices, and provides comprehensible integration with popular ALM systems, like HP, IBM and others.

Drill Down to the Test Steps Within Test Cases

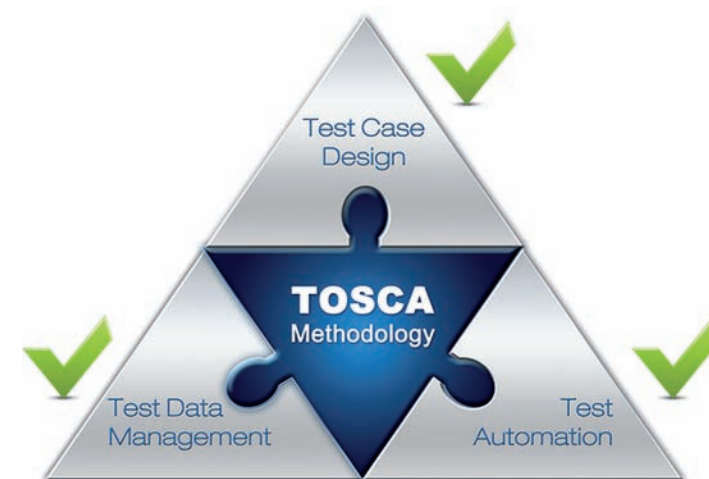


Integrated Test Data Management

In order to make software tests efficient and effective, the required test cases must be determined systematically, and accurate test data is essential for test case execution to yield useful results. To ensure that test data target the test cases precisely, they have to be generated in the test process itself - producing what we call synthetic test data and offering the test organization the highest level of control:

- Perfect fit
- Low data volume and maintenance costs
- The right test data on demand
- No data sanitization required

The ROI of Testing



With Test Case Design, Test Automation, and integrated Test Data Management, you can achieve the optimized ROI required for Testing Centers of Excellence

Cross-Technology Steering

TOSCA OneView makes it possible to reuse one test case across multiple technologies and platforms. TOSCA is perfectly suited for automated tests based on various modern technologies, such as:

Partial list:

- HTML (MS Internet Explorer, Mozilla Firefox, Chrome)
- Win 32 incl. MS Office products
- HOST Terminal Emulations
- SOA WebServices
- Delphi
- SAP
- Visual Basic
- JAVA (Swing /AWT/SWT)
- TextStream Engine
- .Net (WinForms)
- Edifact Engine
- Fabasoft
- WPF Engine
- Oracle Forms/Siebel
- Flash Engine
- Centura Gupta
- Console Engine
- PowerBuilder
- UIA Engine
- PDF documents

Your technology is not listed above? TOSCA's adapters are flexible and can be adapted quickly to any application. For more information, visit us at www.gotosca.com.