Tricentis

Optimizing Oracle Fusion with enterprise test automation:
An executive guide
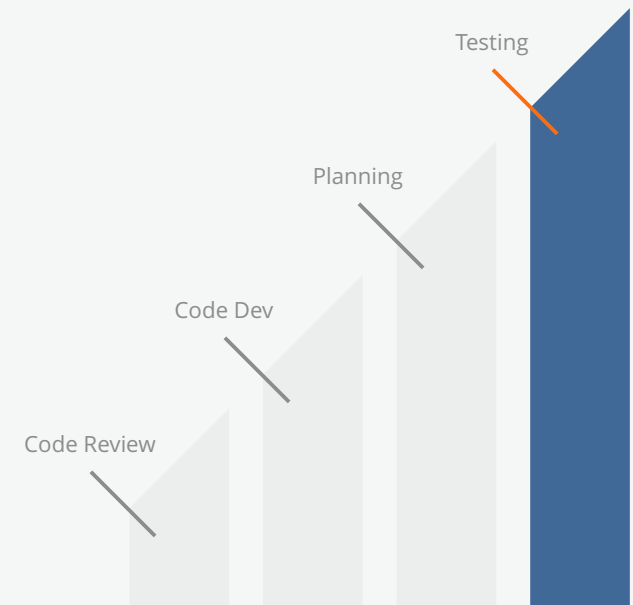
Content

Keeping up with Fusion

Thousands of businesses worldwide are moving their ERP systems to Oracle Fusion. With this complete, modern cloud ERP suite, businesses can operate in higher gear with better resiliency, creativity, and flexibility. (Think of Fusion as your silent business partner.)

Whether you're just migrating to Fusion or fully deployed (and loving it), you're likely adjusting to the wealth of new application functionality and the speed at which it's delivered into the hands of your business users.

The Oracle Fusion landscape is vast, embracing a broad range of applications (ERP, HCM, SCM, CRM) and JavaScript frameworks. With Fusion, Oracle's regular-updates cadence takes on a new level of complexity, urgency, and need for precision. And this cloud environment brings with it a blistering pace for updates and upgrades.

Testing is the #1 barrier to speed and agility.

What impedes the delivery of innovative software?

Testing

Planning

Code Dev

Code Review

Source: GitLab, Global Developer Report, 2019

Fusion requires quarterly updates, which are performed in non-production environments on the first Friday of each month and deployed on every third Friday of the month.

The rapid release and update cycles can be quite challenging, but with a solid testing strategy and the appropriate specialized testing tools, teams can effectively test the entire cloud environment well in advance (think constant, mini migrations).

Intelligent, automated testing is an absolute must, as it can simplify and accelerate testing processes while reducing risk. So you can shift your (diverted) attention on testing mechanics to where it belongs – helping business users adopt, modify, and utilize Fusion apps for business success.

Traditional Oracle testing is outpaced by the cloud

With Oracle Fusion, it's essential to continually deliver high-quality releases, updates, and innovation at cloud speed. Regrettably, manual or marginally automated testing remains the default for most Oracle customers. And it's physically incapable of keeping up with the flow of software updates and the flood of customizations that power Oracle Fusion cloud environments.

Further, Oracle Fusion applications often have a large number of integrations with other systems, making it necessary to test the end-to-end functionality of the entire system. You need both comprehensive testing coverage and the ability to handle complex scenarios.

When Oracle Fusion testing is broken or constrained, risky changes can result in costly disruption and downtime for business users.

Read on to learn more.

Quarterly releases. Unforgiving schedules

Shifting to modern cloud applications introduces accelerated release cycles into your development and testing processes. For Oracle's Fusion Cloud environments, updates are deployed to pre-production just two weeks before Oracle moves them into active production. And this sprint repeats quarterly.

You need to be ready to keep up.

Plan to accept these mandatory updates while also incorporating your own custom Oracle development. If you're operating on an Agile timeline, this means all testing needs to be completed during your two-week sprint. (No, that's not a typo.) Automation that enables immediate testing on staging environments is vital for customers in the cloud.

Complexity confounds — and costs

Fusion applications use a variety of UI controls such as tables, grids, trees, and pop-up windows. Traditional test automation tools have a hard time identifying and interacting with such controls, particularly if they're highly customized. Moreover, many controls require specific interactions (drag and drop, context menus, right-click) that challenge automation.

Even in the cloud, the complexity of Oracle Fusion applications makes it difficult to know which changes pose what risks, and how severe they are. Each update can affect the functionality and performance of the application, requiring test scripts to be updated accordingly. As a result, automating Oracle Fusion and ensuring the stability of automated tests after Oracle quarterly updates demands extended automation capabilities.

Codeless, scalable, and Fusion-native test automation

All of these challenges point to this truth: Moving to the cloud is an intricate process, with lots of room for error. Companies need a testing solution ready-made for these Oracle Fusion-specific quality obstacles — one that's nimble, scalable, and can be used in every scenario and by everyone.

Meet Tricentis Tosca™ — our codeless, end-to-end solution that automates testing for all types of Oracle apps. With Tosca, you can speed up your Oracle delivery and remove maintenance traps — all while increasing quality. Tosca includes a native Oracle Fusion engine that enables easy, more robust creation and maintenance of Fusion tests, reducing the speed and delivery time of Fusion apps.

Previously, Tosca leveraged HTML and ARIA element iden-tification for Oracle Fusion apps. Now, with the addition of ADF element identification, the latest version of Tosca can deliver optimal automation results for Oracle Fusion apps. By using

Oracle's JavaScript-based framework (ADF) to identify objects, Tosca now empowers users to achieve more effective and resilient automation, even for the most complex objects.

Tosca's unique AI-powered, model-based approach makes it easy to create and update test cases. Reusable automation models ensure that any changes made to applications are automatically synchronized, ensuring your test suite is up-to-date and ready to test each Oracle release. Some of its capabilities include:

Build automation for complex controls and customizations

Oracle apps are built in complicated ways, containing several layers of objects and control types that can be difficult for test automation tools to interact with. You may need to validate the contents of complex tables or automate combo boxes, tree views, tree views-ups, and customizations that are specific to your implementation. Tosca's robust, native Oracle engine can

identify and interact with all types of controls, including ADF components, to strengthen your automation coverage and ensure ongoing stability. With Tosca's reusable, model-based approach, you can easily update your existing on-premises tests, so they continue to work when you've moved to the cloud — making testing reliable and fast, no matter where you are in your Fusion journey.

Build automated tests earlier — with Vision AI

Oracle Upgrade Readiness Documentation for Fusion is available at least six weeks before every quarterly update, while the staged production environment is released two weeks prior. This time lag can cause headaches for testing teams. Tosca's Vision AI capabilities enable you to build automation based on the UI prototypes or mock-ups published in the Oracle Upgrade Readiness Documentation — before the real UI is released. These additional four weeks are invaluable for Fusion testing teams and ensure test cycles are painless every quarter.

Resource versatility

You do not need to leverage developers or technical specialists to create test automation. Tosca's codeless, model-based approach allows non-technical team members to contribute to automation. These skills are easily transferable to other applications – and Tosca supports 160+ technologies and enterprise applications. So when automation is required for upstream or downstream applications, or for end-to-end workflows that touch multiple systems, the same skills apply.

Application ID mapper

Tosca allows you to build a library of flexible identification of Oracle controls and remove hard-coded IDs that often break test automation. Simply select the application under test such as Oracle Fusion, uniquely identify your control by adjusting the properties, and save the default IDs in a library. This saves your team the time and pain associated with customizing Oracle-specific controls.

Self-healing technology

Tosca comes with built-in self-healing technology that helps you identify where object changes occur after every Oracle Fusion update or upgrade. With Tosca, you can spend less time and effort fixing steering controls while further reducing your maintenance burden.

Validate fast and unlock more

The faster you can validate the environment, the more time your business has to explore and evaluate the latest release to production. This can unlock hidden potential in the new release by leveraging new features competitors have yet to adopt.

Support for all Oracle apps

Tosca supports testing for all types of Oracle apps, from Oracle Cloud ERPs — Oracle Fusion, Siebel Open UI, etc. — to Oracle on-prem apps like EBS, PeopleSoft, Oracle Smart View Excel add-in, and more. With Tosca, companies are able to perform true end-to-end business process testing. Tosca also supports

the latest Java LTS version, reducing disruptions during regression testing or Java application upgrades. With Tosca, you can test the various, industry-specific business processes that touch Oracle and other applications in your tech stack, and that are vital to your business. Think order to cash, procure to pay, and more.

Faster, lower-risk updates and migrations

Tricentis simplifies and automates the process of Oracle functional and performance testing. Using our platform, you can accelerate Oracle testing by 10x or more while dramatically reducing the risks to the business. This results in massive savings — customers report as much as 50% or more reductions in their testing costs. You get faster and cleaner migrations, smoother updates for all your Oracle applications, and a single, unified approach for on-prem and cloud applications that you can ride into the future.
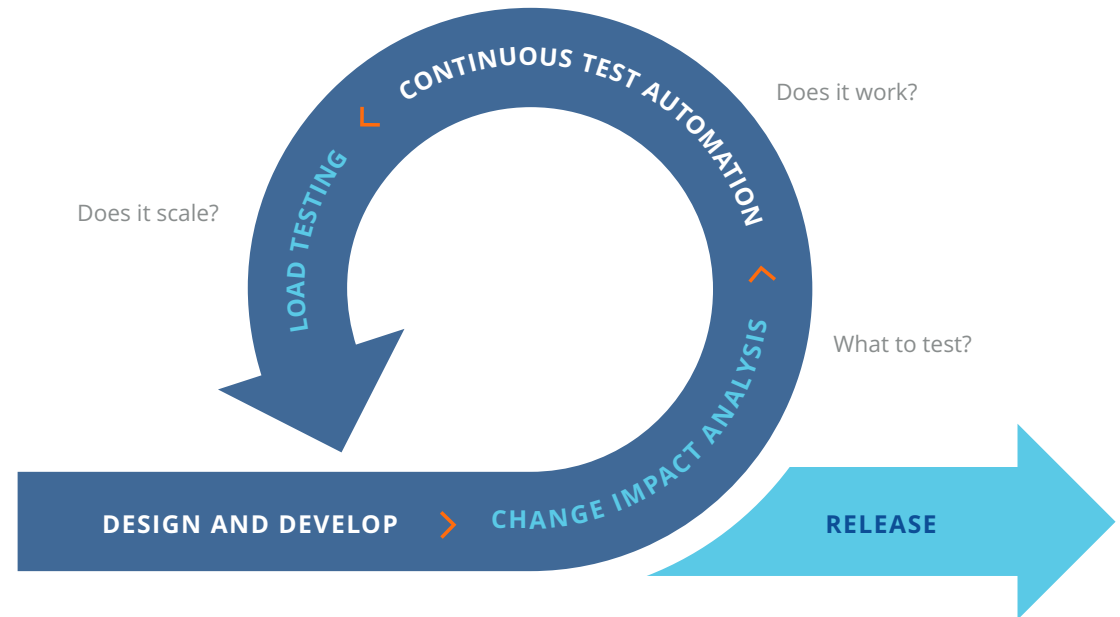
Automated testing built for Oracle

Tosca includes a risk-based testing feature that can help you prioritize the highest-risk areas of your application so that you know what tests to automate and run first, as well as when you've achieved the level of risk coverage required to release.
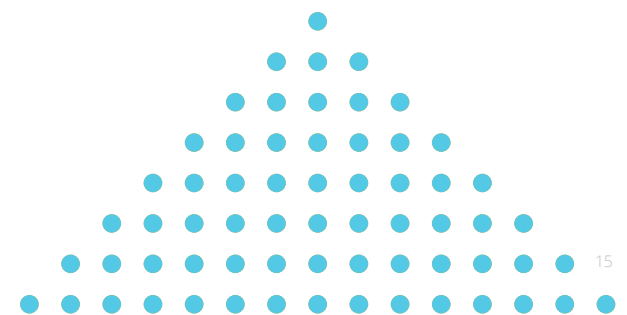
#1: Faster innovation Cleaner migrations

When it comes to migrations, speed changes everything. By replacing slow manual processes with Tricentis' codeless test automation, you can significantly increase test coverage on an Agile timeline. This lets you make biweekly (or daily) Fusion releases a reality.

The skills learned in building test cases for one application can be transferred to other applications, making it easier to manage end-to-end testing across multiple platforms. This versatility is particularly important for organizations migrating from on-premises solutions to cloud-based applications, where many systems are evolving in parallel, and a high degree of end-to-end testing is required.

Successful migrations require continuous testing

#2: Smoother releases for all Oracle applications

Your Oracle test case portfolios likely suffer from this common problem — test bloat and low application coverage. Tricentis Tosca's risk-based test optimization can help eliminate duplicate tests, lower your maintenance burden, slash costs, and give time back to your teams.

Instead of testing too much, too little, or just the wrong thing, Tosca allows you to assign features, user stories, or requirements with high to low priority based on business decisions. This easy, lightweight method helps you identify the highest risk areas of your application, enabling you to detect bugs in your critical requirements much earlier. With Tosca, you can increase application coverage to over 90%, shrink test time, and improve quality.

#3: Test smarter

Automation saves more than time. By reducing testing timelines and automating manual tasks, Tosca shrinks your testing costs and frees your team's time to focus on more strategic tasks. Fixing Oracle testing also minimizes the risk of downtime, eliminates the need for costly hypercare or chaos testing periods, and improves the overall cost-to-value of your Oracle migrations, updates, and other initiatives.

Tosca is designed to help you accelerate innovation and de-risk change from day one with your Fusion applications and strategy.
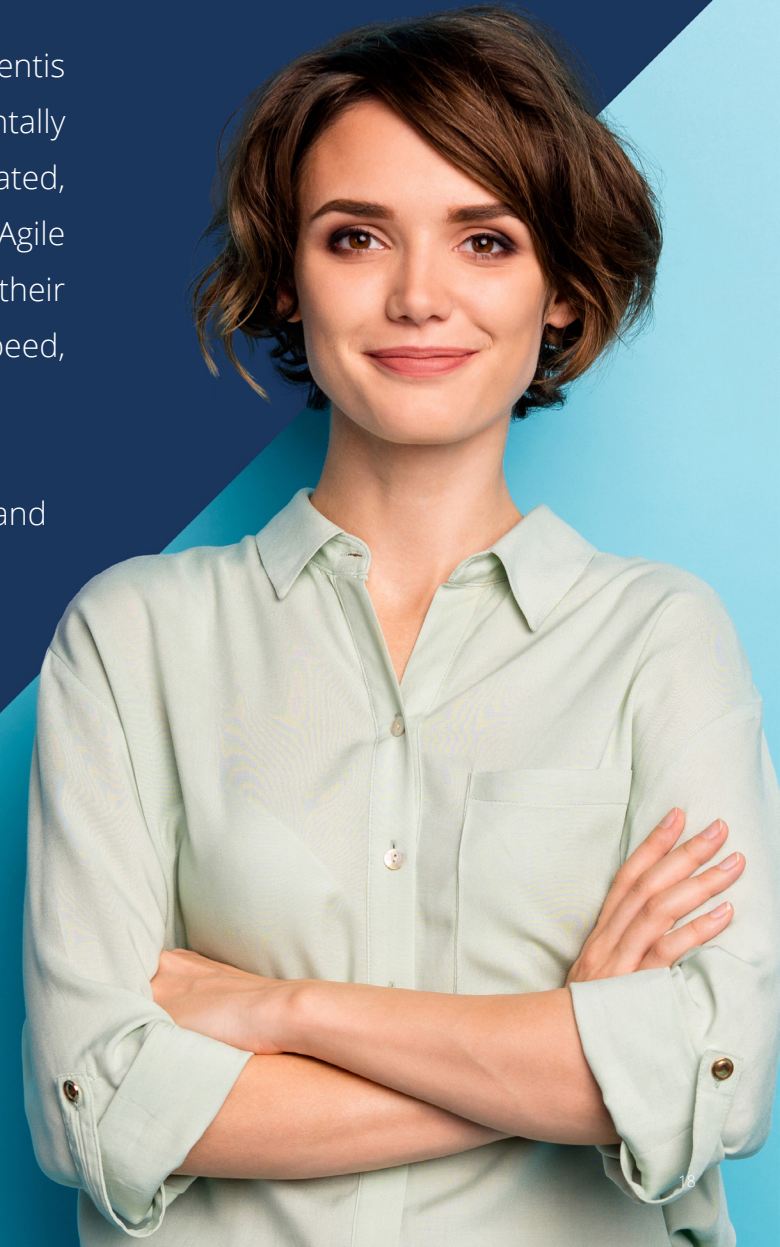
Enterprise-grade solutions for any Oracle challenge

Tricentis is a global leader in continuous testing and quality engineering. The Tricentis AI-based, continuous testing portfolio of products provides a new and fundamentally different way to perform software testing through an approach that's totally automated, fully codeless, and intelligently driven by AI. This approach addresses both Agile development and complex enterprise apps, enabling organizations to accelerate their digital transformation initiatives by dramatically increasing software release speed, reducing costs, and improving software quality.

With solutions for test management, data integrity testing, performance testing, and more, Tricentis can support all of your Oracle quality needs. As our customer, you'll rest easy knowing our knowledge of Oracle, proven track record, and Oracle partnership means we have the experience to help you make your Oracle modernization initiatives succeed.

We'd love to talk more about your Oracle quality goals and how we can help with your Oracle Fusion journey. Request a demo to learn how our solutions can help you improve quality and release speed across your Oracle landscape and beyond.

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