

UFT One

Accelerate and simplify end-to-end functional testing with one intelligent solution that builds and automates tests for enterprise apps using embedded AI-based capabilities.

Product Highlights

How UFT One Can Help

OpenText™ UFT One accelerates and simplifies end-to-end functional testing with one intelligent solution that builds and automates tests for enterprise apps using embedded AI-based capabilities. QA and testing teams can efficiently scale tests across distributed infrastructures and in parallel on web and mobile; script once and replay all tests with cross-browser support; and leverage a broad ecosystem of integrations from version control to continuous integration to agile management. With support of 200+ technologies including SAP, Salesforce, Java, Citrix and more, UFT One increases test coverage from the UI to the API—and everything in between—for true enterprise-grade application testing.

UFT One is part of the industry-leading [UFT family](#) of integrated Functional Testing solutions

which enables customers to test earlier and faster by combining a breadth of technology support with AI-driven capabilities to deliver the speed and resiliency required to achieve automation at scale that is tightly integrated with an organization's current DevOps toolchain.

Key Benefits and Features

Accelerate End-to-End Testing of Enterprise-Grade Apps

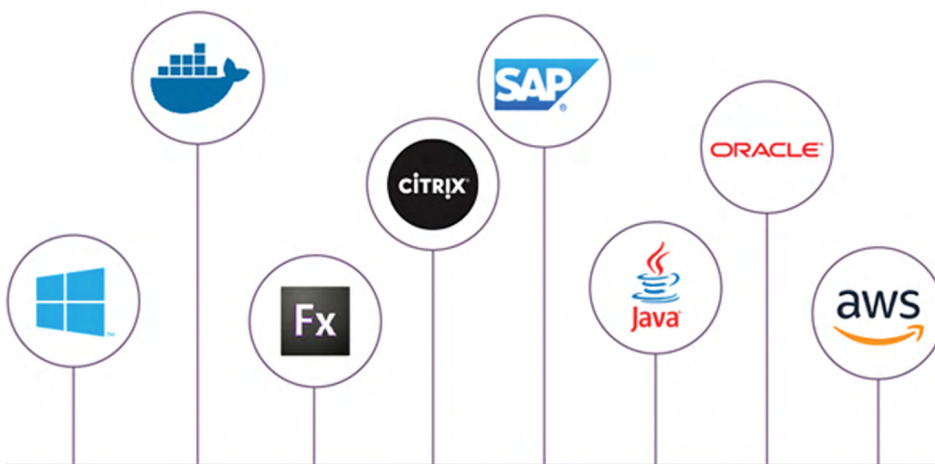
Dominate the tide of technologies with a single tool for end-to-end testing and integration of multiple technologies, environments, and apps.

COMPREHENSIVE TECHNOLOGY STACK

Automated testing of more than 200+ GUI and API technologies across mobile, web, desktop and mainframe, including SAP, Salesforce, Java, Citrix and more.

Key Features

- **True end-to-end testing from a single tool**—centralize and automate functional and regression testing across all layers of enterprise architectures, all designed to extend tests—from the UI to the API, including desktop, web, mobile, mainframe, composite and packaged apps.
- **Comprehensive technology stack**—automated testing of more than 200+ GUI and API technologies across mobile, web, desktop, and mainframe, including SAP, Salesforce, Java, Citrix and more.
- **AI-Driven Test Automation**—AI-based machine learning and OCR-enabled advanced object recognition, and when combined with AI-based mockup identification, AI-based recording, AI-based text matching, remote AI testing, and image-based automation, reduces test creation time and maintenance, and boosts test coverage and resiliency of testing assets.
- **Parallel testing**—execute tests across distributed infrastructures and in parallel on web, mobile, API, Java, Jenkins, or in a combination of API tests called by GUI tests and vice versa.
- **Cross-browser coverage**—script once and replay all tests seamlessly across the leading browsers and browser versions, including Chrome, Firefox, Safari, IE, Edge, and Chromium Edge.
- **Integrated DevOps ecosystem**—DevOps-enabled toolchain for Continuous Testing features CI/CD integration with Jenkins, Azure DevOps, Bamboo and others, plus Version Control for Git, Subversion, TortoiseSVN and others.
- **API and web services testing**—provides an extensible framework for creating and executing tests on “headless” apps.



TRUE END-TO-END TESTING FROM A SINGLE TOOL

Centralize functional and regression testing across all layers of enterprise architectures, all designed to extend tests—from the UI to the API, including web, mobile, composite and packaged apps.

MANUAL & AUTOMATED TESTING

Design, plan, execute and analyze all your manual and automated testing efforts in a single solution.

EXTENSIVE SAP SUPPORT

UFT One offers extensive support for SAP Fiori, SAPUI5 objects and methods, SAP Web Dynpro, ABAP, the SAP NWBC Desktop application, and SAP business applications such as Ariba, Concur, SuccessFactors, Secure Network Configuration (SNC), and more.

AI-Powered Intelligent Test Automation

Simplify and improve test creation, execution, and maintenance through AI-powered intelligent automation. AI-based machine learning and advanced OCR provide for advanced object recognition, and when combined with AI-based mockup identification, AI-based recording, AI-based text matching, and image-based automation, teams can reduce test creation time and test maintenance efforts, and boost test coverage and resiliency of testing assets.

ADVANCED OBJECT RECOGNITION

Streamline test creation and execution by more naturally identifying objects, similar to how a human “sees” them. This is enabled through AI-based machine learning and advanced optical character recognition (OCR).

OBJECT INTERACTION

Increase test resilience by interacting with visual objects on the screen the same way a user would. UFT One’s Neural Network understands each object and its context and manipulates it in a natural way. Together, UFT

One’s AI-based object recognition and object interaction enable a single script to run on multiple different platforms.

NATURAL LANGUAGE TEST SCRIPT CREATION

Reduce test creation time and ease test maintenance with UFT One’s Natural Language Processing (NLP) engine, which enables tests to be written in simple English.

AI-BASED TEST EXECUTION

UFT One combines AI-based object recognition, object interaction, and natural language script creation to allow tests to be quickly written and executed on multiple different platforms without requiring any modification, increasing test accuracy, resiliency, and velocity.

REMOTE AI SERVICE

Install the UFT One Remote AI Service on one central powerful computer to provide faster and more efficient AI capabilities to less powerful UFT One machines

AI OBJECT-DETECTION CLOUD SERVICE

Configure UFT One to use the AI Object-Detection Cloud Service to perform AI-based testing. This reduces the use of local resources, speeds up test execution, and ensures that you are always using the latest AI model.

Boost Productivity with Intelligent Automation

UFT One’s intelligent automation capabilities enable teams using UFT One to accelerate the creation of automation assets and reduce the maintenance effort required to match the pace of application changes.

MACHINE-DRIVEN REGRESSION TESTING

Find anomalies easily, such as latency issues, scripting errors, visual regressions, broken links, and more.

SYNTHETIC DATA CREATION

Create data intelligently using multiple algorithms to reduce the size of a test data set and

reduce the time to test, without serious loss of quality.

PROVISIONING AND REUSING DATA-DRIVEN ASSETS

The Test Combinations Generator (TCG) creates reusable test data on-the-fly using happy/error paths and multiple algorithms. Data Capture enables one to pull lists of data values directly from an app into UFT One with a few simple clicks. Customer Data Template enables for the creation of a custom xml template that generates parameter types for a test. The Undo/Redo Toggle allows one to quickly undo or redo multiple steps while configuring data for a test.

Increase Test Coverage— from the UI to the API

Test both the front-end functionality and back-end service parts of an application. UFT One supports nearly every major software application and environment, including SAP, Oracle, Salesforce, mainframes, embedded frameworks, headless browsers, and much more.

VISUAL TEST-DRIVEN DESIGN

UFT One’s multi-layered interface displays both UI and API tests in an intuitive graphical canvas, providing a clear representation of the test flow. Tests are clearly diagrammed in the canvas to illustrate critical information for automating complex application compositions and orchestrated business processes—all with corresponding actions, activities, and parameters to provide clarity of test logic and flow.

API TESTING WITHOUT EXTENSIVE CODING

One’s API and Web services testing capabilities give teams an extensible framework for creating and executing functional tests of “headless” applications or the non-GUI parts of an application. With an easy-to-use, visual interface, UFT One provides the ability to test at the headless layer without the need for extensive coding.

Test at the headless layer with UFT One's collection of built-in standard activities, such as file and string manipulation, data conversion, and messaging. For time-bound projects, import your existing resources (SoapUI, WSDL, WADL, Swagger, OData) and let UFT One automatically generate API tests for you. Define which critical aspects to test: positive, boundary, security, and/or compliance. UFT One also supports enterprise businesses using cutting-edge IoT technologies with support for MQTT and CoAP. And let's not forget UFT One's extensive support for creating and importing REST service models, as well as sending and receiving a JSON request for REST API services.

Efficiency at Scale—Test More Per Cycle in Less Time

Achieve test execution at full velocity. Burst tests across distributed functional testing infrastructures and run tests at scale with full parallel, cross-browser and cross-device mobile testing.

PARALLEL TESTING

Fire your tests on all cylinders by executing tests across distributed infrastructures and in parallel on web, mobile, API, Java, Jenkins, or in a combination of API tests called by GUI tests and vice versa.

RUNTIME EXECUTION

The Runtime Engine in UFT One allows execution without the need for a full UFT One license or installation.

CROSS-BROWSER COVERAGE

Script once and replay all tests seamlessly across the leading browsers and browser versions, including Chrome, Chromium Edge, Firefox, Safari, IE, and Edge. Tests can be recorded on one browser and the same script can be used with no adaptations to test multiple browsers and configurations. If desired, the same test run can cover all the different browsers by having each test iteration executed on a

different browser, with one report covering the test flow status on all desired configurations.

CLOUD-BASED DEPLOYMENT

To expand your footprint, simply deploy UFT One in the cloud on your provisioned Citrix, AWS, and Azure virtual environments.

DOCKER CONTAINERS

Run API tests and mobile tests in a lightweight Windows Docker environment directly from Jenkins.

Control, Communicate & Collaborate

Break down silos and ensure a steady flow of information between teams, sharing insights across teams to avoid unnecessary duplication of efforts. Enable a collaborative approach to test automation by supporting a wide range of roles, such as business analysts, test automation engineers and developers, ensuring a bidirectional communication between business teams and QA teams.

ROBUST REPORTING

Report QA results using a variety of tools across multiple teams and locations. Provide positive test reports to ensure quality and compliance mandates are being met.

RESULTS-DRIVEN REPORTS AND VITALS MONITORING

Include HTML results in PDF, which creates a sharable PDF of HTML-based results.

STATISTIC INDICATOR

Get statistics about which steps passed or failed and receive warnings during the test run.

Eliminate Bottlenecks with an Extensible DevOps Ecosystem

From version control to continuous integration to agile management, UFT One's broad ecosystem of integrations include open source, third-party, and OpenText solutions that support multiple testing strategies, eliminate

bottlenecks, and gain efficiencies across the lifecycle.

OPEN ARCHITECTURE

Use UFT One's add-in extensibility to integrate with open source, third-party, custom controls, and other OpenText solutions.

INTEGRATED DEVOPS ECOSYSTEM

DevOps-enabled toolchain for Continuous Testing features CI/CD integration with Jenkins, Azure DevOps Server, Bamboo and others, plus Version Control for Git, Subversion, TortoiseSVN and others.

SHIFT-LEFT TESTING WITH UFT DEVELOPER*

Increase productivity with a shift-left test automation tool created for Developers using the IDE, language and testing framework of choice to create tests at the same time the application is being developed. Also, support Developer / QA collaboration by converting UFT One object repositories to UFT Developer application models, or by converting UFT Developer application models to UFT One object repositories.

SHIFT-RIGHT TESTING WITH BPT

Use the OpenText Business Process Testing (BPT) framework for keyword-driven and scriptless automation of web, desktop, and packaged applications such as Oracle, PeopleSoft, and SAP. Through the creation of reusable business process components, capture flows directly from the application screens and leverage UFT One's robust record/replay capturing technology.

MOBILE TESTING ON LOCAL DEVICES

The UFT Mobile Add-in for Local Devices integrates UFT One and mobile devices connected directly to the UFT One host machine. In just a few steps, UFT One users can start designing and running mobile app and web tests on

** UFT Developer is available for use with UFT One at no additional cost.*

“The use of headless browsers (i.e., browsers without a graphical user interface) helps us run our test automation scripts without even rendering them on a screen. This allows us to reduce our regression test time by 70 percent, time we can use to execute deeper and broader application tests.”

HEMANT ANUGONDA

Senior Manager of Quality Services
TMNAS

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[OpenText CEO Mark Barrenechea's blog](#)



local mobile devices without purchasing an additional license. This type of tight integration allows UFT One users to execute omnichannel content strategies using the same script for desktop and mobile web, support mobile testing in companies that do not yet have a lab management solution in place, or run mobile tests without requiring a new tool for mobile devices.

SERVICE VIRTUALIZATION

UFT One is also fully integrated with OpenText Service Virtualization, enabling application teams to easily create virtual services that can replace targeted services in a composite application or multi-step business process. By accurately simulating the behavior of the actual component, it enables developers and testers to begin performing functional or performance testing right away, in parallel—even when the real services are not available, when data access is restricted, when data is difficult to attain, or when the services are not suitable for the particular test. With UFT One's integration to Service Virtualization, automated testing teams can achieve delay-free continuous testing with improved test coverage and fewer defects in production.

REAL-TIME COLLABORATION WITH OPENTEXT APPLICATION LIFECYCLE MANAGEMENT

Functional and regression tests can be triggered as part of the regular build process, with results reported in Application Lifecycle Management (ALM) and teams being instantly alerted to issues in order to keep the agile timeline on track. This means UFT One facilitates collaboration among teams through its shared application object definitions, thereby keeping changes to test objects synchronized throughout the test creation process.

System Requirements

UFT One Minimum System Requirements

- **Host Processor:** 4 GHz or higher
- **Operating System:** Windows 10 (32-bit or 64-bit)
- **Memory:** 4GB or 8GB for AI
- **Free Hard Disk Space:** 20 GB of free disk space for application files and folders

For additional information, please see the [Product Availability Matrix](#).

Learn more at

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[Welcome to UFT Developer](#)

www.microfocus.com/opentext