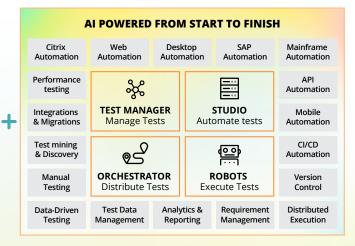


In the rapidly evolving landscape of digital transformation, test automation has become a critical component for ensuring the quality and reliability of software applications. Deloitte and UiPath are collaborating to deliver leading test automation solutions, leveraging their strengths to drive innovation and efficiency for businesses across various industries.





Deloitte.

UiPath

A key aspect of our combined approach is the adoption of the **shift-left testing** methodology. This approach advocates starting testing early in the project phase, which promotes higher accuracy, lowers defect rates, and facilitates broad test coverage.

By integrating testing activities from the beginning of the software development lifecycle, Deloitte and UiPath can help clients identify and address issues sooner, leading to more reliable and high-quality software applications.

SHIFT LEFT APPROACH



Engagements should adopt a "shift left" approach, and validate early and often by implementing continuous integration and testing practices

GENAL & AUTOMATION FIRST MINDSET



Utilize the power of GenAl and Implement automations at-scale to limit the human interaction in the testing processes and improve the overall efficiency

COMPREHENSIVE TESTING COVERAGE



Enhance testing of variations such as product lines, countries as well as security roles. Minimize surprises post go-live.

METRICS-DRIVEN QUALITY ENGINEERING



Continuously improve testing consistency and predictability with aligned KPis and metrics. Establish a robust governance model to drive operational efficiency and maintain transparency



Up to 20% increase in testing

increase in testing coverage by starting to validate end-to-end processes earlier



More than 30%

increase in **automation ROI** by using Al/ML, RPA, and other techniques



Up to 40%

improvement in **cost of quality and time to market** by eliminating manual work

and inefficiencies



Up to 10%

effort savings owing to standardization of testing processes, templates and metrics to monitor efficiency of testing processes

KEY TENETS

DELOITTE'S STRENGTHS

Deloitte brings deep industry knowledge and extensive experience in delivering highquality consulting services. With a library of test cases and scenarios that span across business packages and industries, Deloitte is well-equipped to help clients address their various testing needs. This vast repository of test cases and scenarios enables Deloitte to provide tailored solutions that meet the specific requirements of different business sectors, facilitating broad and reliable software performance.

Deloitte Ascend™

Deloitte Ascend Test is Deloitte's advanced test automation tool that brings mature capabilities for test case writing, test step generation, and test scenario generation, using Deloitte's extensive test repository. This tool leverages Deloitte's deep industry knowledge and experience to create broad and effective test scenarios that are designed to help address the unique needs of various business sectors. Deloitte Ascend's key features include:



Test case writing:

Efficient creation of detailed test cases that cover a wide range of testing needs, facilitating validation of software applications.



Test scenario generation:

Automated generation of test scenarios based on industry leading practices, business process flows, and specific business requirements.



Test step generation:

Automated generation of test steps, leveraging Deloitte's extensive test repository, to enable broad and accurate testing.



Test data generation:

Ascend solution enables users to autogenerate test data for test scenarios using prompts. This solution also has pre-built queries to extract data from SAP S/4 HANA.

Additionally, Deloitte offers a library of over 1,300 pre-delivered automations on UiPath, providing a strong head start to projects. This extensive library enables clients to quickly implement automation solutions, reducing the time and effort required to develop custom automations from scratch.

These capabilities enable Deloitte to deliver high-quality test automation solutions that can enhance software reliability and performance, helping clients reduce testing time and costs.

UIPATH STRENGTHS

UiPath, a global leader in agentic automation, contributes its deep technology expertise through UiPath Test Cloud for software testing. This powerful suite of tools is designed to streamline and enhance the test automation process, offering features such as advanced test management, seamless integration with various development environments, and robust reporting capabilities. The UiPath Platform empowers organizations to achieve higher levels of automation, reduce testing time, and improve overall software quality.

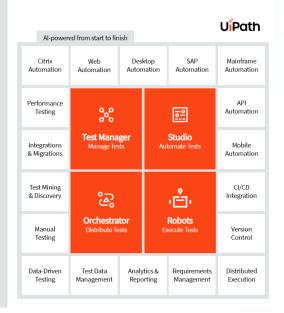
UiPath Test Cloud

UiPath Test Cloud is an Al-powered testing solution that is part of the UiPath Platform. It offers enterprise-wide, production-grade test automation capabilities to deliver automations and applications quickly and continuously at scale. The Test Cloud comprises four main components:

Test Cloud is a fully-featured offering for modernizing testing

We equip our customers with everything to scale testing for the largest and most complex projects







UiPath Studio:

An integrated development environment (IDE) for test automation development, enabling the creation of test cases with both low-code and coded automation capabilities.



UiPath Orchestrator:

A platform that allows for the publishing, centralizing, and execution of tests, either from Orchestrator or using a Continuous Integration and Continuous Delivery (CI/CD) pipeline.



UiPath Test Manager:

A test management tool that offers full requirements traceability, visual logging, and integration with existing tool stacks and 60+ different lifecycle solutions.



Test Robots:

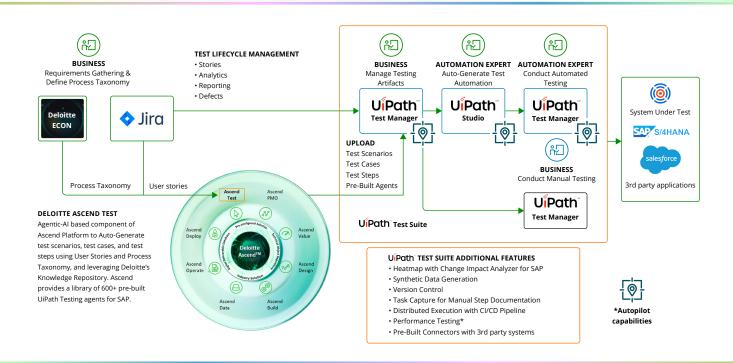
Agents and robots connected to Orchestrator that execute processes, including tests, on-demand, continuously, and at scale.

UiPath TestCloud also includes features such as synthetic test data generation, adaptive test execution, and real-time, actionable test insights.



UIPATH TEST CLOUD INTEGRATION WITH DELOITTE ASCEND

The joint solution architecture is built to combine the individual strengths of Deloitte and UiPath and deliver an Aldriven, high-maturity testing solution for our joint customers.



Deloitte's Enterprise Consciousness solution enables end-toend-process design based on industry-leading practices. The Jira platform, integrated with Deloitte's Ascend ecosystem, enables sprint management and hosts user stories.

Ascend Test Solution leverages process taxonomy from Enterprise Consciousness and Jira user stories to generate Test Cases, Test Steps, and Test Scenarios using Generative AI (GenAI). Ascend Test has a built-in repository of Test Cases and Test Steps across business packages, industries, and countries, which it uses as a grounding layer for AI to provide high-maturity output.

These generated testing artifacts are integrated with UiPath Test Cloud for either automated or manual execution. Ascend Test Solution provides a prebuilt library of common testing automations across business packages as a starter kit. The Autopilot capability in UiPath Test Manager enables Automation testers to auto-generate UiPath Testing automation from manual test cases and self-heal automations, enhancing efficiency and return on investment (ROI).



AGENTIC CAPABILITIES IN ASCEND AND TEST CLOUD

Upcoming features in Ascend Test Al include agentic capabilities to autonomously execute testing based on events in the target application landscape, or changes in business processes. The multi-agent architecture will monitor changes in the system and autonomously create and execute test cases and scenarios with minimal human inputs and validations to test the system change, covering multiple variations for achieving enhanced quality.



Agentic testing in UiPath Test Cloud augments testers with Al agents—not replacing them, but acting as collaborative partners. Key components include Autopilot for Testers, which automates test design, execution, and management, and Agent Builder, which allows testers to choose from a catalog of prebuilt agents and create custom agents for tailored solutions.

This approach enhances productivity and job satisfaction by enabling testers to focus on complex tasks while AI handles recurring, cognitive processes. UiPath Test Cloud's agentic capabilities facilitate accuracy and efficiency, reducing incidents and accelerating time-to-market.



01

Built-in Al Agents

Harness a broad collection of built-in & customizable Al agents across the lifecycle

UiPath Agents

02

Custom Al Agents

Build your own AI agents tailored specifically to your unique testing needs

Your Agents

Assisting testers from start to finish with built-in agents by Autopilot

Detect obsolete & missing tests	Autonomous testing agent	Self-heal test automation	Assisted manual testing
Identify test requiring updates	Generate low-code test automation	Fix validation errors in test automation	Proactive change detection
Generate tests for SAP transactions	Perform fuzzy verifications	Generate UI & API test automation	Search project in natural language
Generate test for requirements	Generate synthetic test data	Refractor test automation	Import manual tests from Excel
Quality-check requirements	Generate coded test automation	Generate expressions	Generate test insights reports
Test Design	Test Automation		Test Management

CASE STUDY:

FRENCH PHARMACEUTICAL COMPANY'S SAP S/4 HANA IMPLEMENTATION ACCELERATION

When a French Pharma Company engaged Deloitte to implement SAP S/4 HANA, the project team strategically chose the Deloitte Ascend platform to drive efficiency and quality in testing activities. Leveraging Ascend Test AI, project team members were able to:

- Rapidly Generate Test Assets: Ascend Test AI enabled the team to create a comprehensive suite of test scenarios, test cases, and test steps for a broad ERP program scope in under 48 hours—a process that would typically take weeks using traditional methods.
- Drive Efficiency with High-Quality, Ready-to-Use Test Cases: The Al-generated test cases were of such high quality that they significantly reduced the time and effort required for business review, freeing up resources for higher-value activities.
- Comply with Industry Standards: Test steps and acceptance criteria were automatically aligned with life sciences process guidelines, ensuring full compliance with Computer System Validation (CSV) requirements—a critical factor for regulated industries.

Complementing Ascend Test, the Deloitte project team utilized the UiPath Test Suite in conjunction with Deloitte's proprietary automation library to further enhance the testing process:

- Accelerated Integration Testing: Automated test execution sped up integration testing cycles, allowing the team to validate complex end-toend business processes faster than manual testing would allow.
- Expanded Test Coverage: Automation helped to achieve a level of test coverage that would have been unattainable within the project's limited testing window if relying solely on manual efforts.
- Reusable Automation Assets: The combination of UiPath Test Suite and Deloitte's automation library provided reusable components, increasing efficiency for future testing cycles and ongoing regression testing.

CASE STUDY:

SOFTWARE COMPANY INCREASED COVERAGE WHILE DECREASING TESTING TIME

By choosing Deloitte to implement a comprehensive SAP automation solution—leveraging Deloitte Ascend for intelligent test scenario generation and UiPath Test Cloud for robust execution—a leading software products company significantly advanced its testing capabilities.

Key Features and Achievements:

- Extensive End-to-End Automation: Over 400 highly complex end-to-end (E2E) test scenarios were automated, ensuring thorough validation of critical business processes.
- **High-Volume Test Execution:** The solution enabled more than 350 test executions per week, resulting in over 6,000 test executions across just four testing cycles—a scale and speed unattainable through manual testing alone.

Advanced Mass Order Testing:

- Developed a Test Automation Mass Order Validation process capable of processing, activating, and validating over 700 orders for the Quote-to-Cash (QTC) workflow.
- Built a Test Automation Mass Order Creation capability that auto-generates test data for more than 300 orders, streamlining data preparation and enhancing test reliability.
- Accelerated and Expanded Coverage: The combined approach led to a 20% reduction in testing time and a 30% increase in test coverage, directly contributing to faster, higher-quality software releases.

THE POWER OF COLLABORATION

UiPath, a global leader in agentic automation, contributes its deep technology expertise through UiPath Test Cloud for software testing. This powerful suite of tools is designed to streamline and enhance the test automation process, offering features such as advanced test management, seamless integration with various development environments, and robust reporting capabilities. The UiPath Platform empowers organizations to achieve higher levels of automation, reduce testing time, and improve overall software quality.

CONCLUSION

The alliance between Deloitte and UiPath in test automation is a testament to both organizations' commitment to innovation and excellence. Together, they deliver transformative solutions that help clients enhance software quality, accelerate time-to-market, and drive operational efficiency for businesses worldwide.

FOR ADDITIONAL INFORMATION,

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