

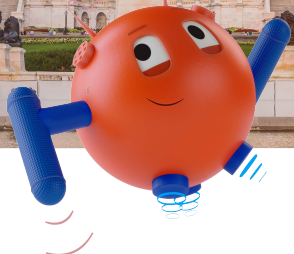
Automating Application Testing in the Public Sector with **UiPath Test Suite**

UiPath has made it easier than ever for federal, state, and local governments; higher education institutions; and government-run health systems to fully maximize their enterprise automation capabilities. Building on its status as a leader in process automation, UiPath consistently looks for ways to help public sector customers transform their organizations through automation—including automating testing processes with UiPath Test Suite.

In the public sector industry, IT teams allocate an average of 34% of their budgets to testing, as stated in the World Quality report 2020–2021. Furthermore, over 61% of testing efforts within government agencies still rely on manual testing, which can be time-consuming and error-prone. While public sector organizations recognize the advantages of test automation, legacy testing solutions can be challenging to learn and rely on. Plus, many automated testing tools have a low ROI because automation teams operate in silos. Additionally, 54% of public sector organizations face difficulties in adopting test automation due to the lack of test automation skills among their testing teams. Yet another challenge—public sector organizations must ensure that any citizen data is properly masked and secured, as well as guarantee that their applications comply with a range of regulatory requirements and data privacy laws.

So what's the best way to address these challenges? Enter UiPath Test Suite, the resilient testing solution powered by the UiPath Business Automation Platform. UiPath Test Suite can help public sector agencies and organizations deliver high-quality and secure essential services through automation-led testing. With the UiPath end-to-end Business Automation Platform, organizations can ensure that their applications comply with regulations and accurately process citizen data. UiPath customers have reported reduced test cycles by as much as 50%, improved automated test coverage by two to three times, and reduced overhead costs by up to 30%. The UiPath Platform is also purpose-built for enterprise automation. It features reusable component libraries that organizations can share across test, IT, and business process automation teams.

An easy-to-learn, low-code approach empowers testers to create their own test automations, which frees up application developers for other mission-critical work. UiPath Test Suite also integrates seamlessly with your existing testing tool landscape and can interact with any type of application. These capabilities allow you to test full-scale, end-to-end processes across legacy applications, desktop applications, modern browser applications, and mobile applications.



After 20+ years, the time has come to stop paying the testing tax

34%

of a typical public sector organization's IT budget is allocated to application testing

62%

of public sector professionals say siloed team culture is a barrier to DevOps success

63%

of public sector organizations identified a lack of in-house skills for automated testing as a key challenge

What makes UiPath different?



One platform to test all applications—modern and legacy—across all segments of the public sector

The public sector is a complex ecosystem that uses a vast array of applications to provide essential services to citizens. From federal, state, and local governments to schools, hospitals, and libraries, these applications are the backbone of their operations. Financial management systems like SAP, Oracle Financials, and Oracle PeopleSoft are deployed to ensure seamless budgeting, accounting, and financial reporting. Human resources management systems such as Workday, SAP SuccessFactors, and Oracle Human Capital Management manage employee data, including payroll, benefits, and performance management. Customer relationship management systems like Salesforce, Microsoft Dynamics CRM, and Oracle CX, are leveraged to maintain meaningful interactions with customers and constituents. Robust geographic information systems like ArcGIS and MapInfo enable effective emergency management, land-use planning, and environmental analysis. Learning management systems such as Blackboard, Canvas, and Moodle enable online learning and training programs. Electronic health records like Epic, Cerner, and Allscripts streamline patient health information management.

Due to resource constraints and the diversity of applications used in the public sector, any automated testing solution must be powerful enough to handle a wide range of technologies with a single workflow designer that doesn't require programming skills. The UiPath Platform offers exactly that, as it can automate and test more than 190 different UI (user interface) and API technologies with ease. Its powerful combination of native integrations, flexible API consumption (via Integration Service or the HTTP request activity), and industry-leading user interface automation capabilities allows UiPath Test Suite to test a virtually limitless set of target applications.

UiPath Test Suite is the ideal solution for public sector organizations looking to improve their testing processes and reduce the workload on their staff. With repetitive checking, verifying, scanning, and testing, UiPath can reduce human errors and actions by bad actors to significantly reduce the risk of fraud, waste, and abuse without delaying services to citizens.



Guarantee compliance with regulations and policies

UiPath Test Suite is the perfect solution for automating the post-patch application testing process to ensure seamless updates and patches without errors. UiPath can automate testing by running test cases, checking results, and generating reports. These automated testing capabilities save time and reduce human error. Moreover, UiPath can streamline user onboarding and offboarding by automating account creation and removal, setting up permissions and roles, and ensuring that only authorized users have access to the system. By leveraging UiPath Test Suite in these critical security processes, organizations can improve efficiency, accuracy, and security, ensuring that their business remains protected from any potential breaches.



Synthetic test data generation for secure data-driven testing

The UiPath Business Automation Platform is an ideal solution for public sector organizations looking to optimize their testing processes. Advanced automation technologies extract and load data from various sources and transform it into test environments to mirror real environments that may contain sensitive data. Data-driven testing with UiPath allows test robots to dynamically consume this data and test multiple scenarios at scale, saving time and reducing errors. With this powerful solution, public sector agencies can improve testing efficiency and ensure compliance with industry regulations.



Maximizing efficiency with minimal resources

UiPath is optimized for efficiency, providing a user-friendly interface that allows for easy automation and testing of applications. The UiPath Academy offers extensive training on the platform, empowering users to leverage its full capabilities with minimal resources. The UiPath Community Forum is a thriving hub where users can access support, share ideas, and collaborate on solutions, further maximizing efficiency. Furthermore, the UiPath Marketplace provides a vast array of prebuilt automation components that can easily integrate into workflows, streamlining processes and increasing productivity. With its intuitive design, comprehensive training, collaborative community, and robust marketplace, UiPath maximizes efficiency while minimizing resource usage.

UiPath Test Suite is part of a converged automation platform

UiPath Business Automation Platform



Discover
Process and Task Mining



Automate
Test Automation



Operate
Orchestration



Manage
Test Management



Run
Business Process Automation



Run
Test, Attended, and Unattended Robots

End-to-End UI and API Automation

Automation Cloud



Hybrid



On-premises



3-5x

Automation Development

90%

Automation Rates

3x

Release Speed

70%

Component Reuse

30-40%

Cost Reduction



Public Sector Customer Success Stories



U.S. Department of Defense

The U.S. Department of Defense (DoD) needed a way to rapidly assess cyber threats and prioritize patches for its many custom-built legacy systems. However, these systems don't interface easily with best-of-breed cybersecurity solutions, efficiently identify assets, or provide an integrated view of all vulnerabilities. Given these challenges, they needed an automation-based testing solution to test the patches.

To help bridge this gap, UiPath collaborated with the U.S. Department of Defense (DoD), the Defense Information System Agency (DISA), and the Defense Innovation Unit (DIU) to complete a technology usability assessment to demonstrate how the UiPath Business Automation Platform can provide off-the-shelf capabilities to seamlessly integrate into the enterprise network. These capabilities reduce the timelines for profiling assets and prioritizing vulnerabilities to patch. Test Suite proved to have great potential to accelerate post-patch regression testing as well as reduce mission-critical systems' vulnerability.

75

Test robots deployed

70%

Test automation coverage

80%

Faster test execution



89%

Use case coverage

46

Unique scenarios

15X

Faster than manual testing

United States Postal Service



Prior to Test Suite, the team supporting testing of the USPS Informed Delivery service relied completely on inefficient manual testing to ensure new releases did not introduce regressions to production and impact the user experience. Informed Delivery is used by over 39 million customers across the United States to check their upcoming mail and package deliveries, as well as to report undelivered mail.

In partnership with Deloitte, USPS evaluated both Selenium and UiPath to regression test the Informed Delivery web application – ultimately, USPS chose Test Suite due to its ease of use and the company's overall success with the UiPath platform to date. Since December of 2020, nearly 70% of the existing manual test cases have been automated, enabling 80% faster test execution time. With automated testing, the Informed Delivery team will now be able to deliver new releases faster and with greater confidence.

For more details, please visit us at:

<https://www.uipath.com/solutions/industry/public-sector-automation>

