When it comes to building and delivering better software faster, organizations can no longer choose between speed and quality if they expect to remain competitive in today's DevOps environment. What's needed is a faster way to engineer quality into every application. Micro Focus anticipated this need for faster, smarter testing and embedded multiple AI-powered intelligent automation capabilities into UFT One. These new features enable teams using UFT One to reduce test creation time, boost test coverage, increase resiliency of testing assets, and cut down on test maintenance efforts.

The Benefits of Micro Focus Intelligent Test Automation Solutions

Intelligent Automation is the key to more resilient test coverage. The benefits of AI-powered intelligent test automation include:

- Preventing defects from escaping into production by detecting and fixing them earlier
- Reducing costs through simple test creation and maintenance, reusable and resilient test scripts, and lower test infrastructure expenditure
- Ensuring products meet customer expectations on all platforms

UFT One’s AI-Based Test Automation Capabilities

- **AI-Powered Intelligent Test Automation**
  Simplify and improve test creation, execution, and maintenance through capabilities based on Artificial Intelligence (AI) and intelligent automation.

- **Image-Based Processing**
  Keep up with unpredictable UI changes by learning objects like humans do—through image-based automation, visual anchors, and embedded OCR ( Optical Character Recognition) with either the ABBYY OCR engine or the Google Tesseract OCR engine.
Image-based automation
Identifying objects using Insight (Insight): Insight enables UFT One to recognize objects in the application based on what they look like, instead of properties that are part of their design. This can be useful for working with an application running on a remote computer.

Visual anchors
Visual relation identifiers (VRI): To improve object identification, create a visual relation identifier, which is a set of definitions that enable for the identification of the object in the application according to the relative location of its neighboring objects.

Embedded OCR
Text recognition in run-time (Text recognition): When working with tests and scripted components, the text and text area checkpoint or output value commands can be used to verify or retrieve text in objects.

Text Analysis
Extract text and data values directly from an app for analysis, or collect analog text directly from images.

Data extraction
Test Combinations Generator (TCG) enhancements (Pull data in TCG): UFT One’s TCG tool supports an additional method of generating values from list objects, by pulling data directly from the application that is being testing.

Text from images
Text recognition in runtime (Checking text in an image): When working with tests and scripted components, use the text and text area checkpoint or output value commands to verify or retrieve text in objects. UFT One identifies text in an application via an OCR mechanism.

Synthetic Data Creation
Create data intelligently using multiple algorithms to reduce the size of a test data set without serious loss of quality.

Data creation
Generate data to drive your test (Test Combinations Generator): The Test Combinations Generator helps to prepare test configuration data by using the parameters in the test and their possible values to create multiple data combinations. Once the data is specified, and depending on the number of parameters, this task can grow exponentially. Use the Test Combinations Generator to do the work automatically.