Enhancing Quality through RPA

- Overview of Quality-focused Automation
- Demo 1: System Testing
- Demo 2: Process Validation
- Questions & Answers

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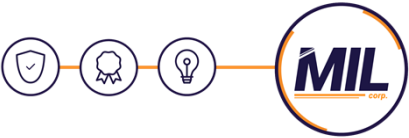301.906.8841 (c)

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Why RPA for Quality Assurance?

Test Automation

- Low code / no code creation eliminates programming test scripts
- UI orientation enables resilience as systems go through upgrades
- Bots can be easily expanded or joined to expand test coverage

Process Validation

- Automation improves controls, accuracy, and issue identification
- Validations can be readily created and maintained as needed
- Validations and controls will fit within overall robotics environment

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Automated Testing Demo

Best use of automated testing is for regression testing for COTS upgrades and new builds.

- Standard set of scripts that an agency wants to make sure work with every release
- RPA tools allow for speed of development of automated scripts (we use UIPath)
- Also allow ease of use for non-technical testers and IV&V staff

Creating

- Creation requires minimal technical skills
- Testers create test scenarios in Excel (or any other tool)
- Test data is created alongside scenarios
- Testers record the test scripts as a bot using built-in recording function

Executing

- Execution is performed by test team
- Upon build or upgrade availability, tester uses RPA tool to "RUN" the test scripts
- The RPA tool will execute the same scenarios that were recorded
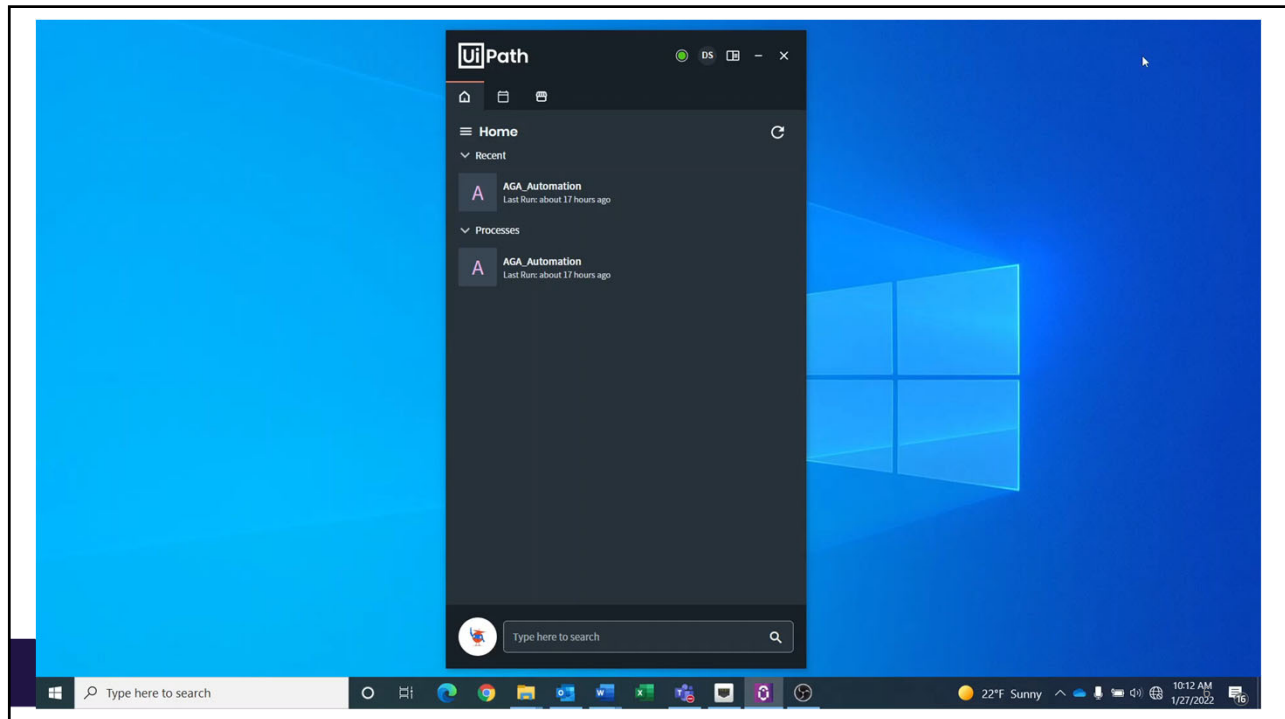- Any changes from the expected results will register as a FAIL

Maintaining

- Scripts can be adjusted as needed for new functionality
- The RPA tool can automatically adapt to many screen changes and field changes
- Bot flow can be adjusted through point-and-click script changes or by re-recording
- Bots can be chained to simulate workflow or end-to-end processes

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Process Validation Demo

Process validation can be used for internal controls or quality assurance.

- Validating that multiple processes or sources match
- Comparing process outcomes with expected results
- Extracting and normalizing data from documents, reports, or other external sources
- Cross-referencing standardized data to identify matches and exceptions
- Incorporating additional analyses to support visualization or trend analysis

As with testing, process validation can be created and maintained by existing staff

- If needed, complex validations or controls can be edited by bot developers
- Bots can be readily updated for additional controls or changes in processes

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Thank you!

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