

TestExec™

Automated Testing Framework

Automate test execution and test reports

Analyze test results in real-time or historically

Customize test reports

OVERVIEW

TestExec™ is an HTML-based testing framework developed and used by ARKA and our customers to automate testing and verification of ARKA systems. TestExec uses Python-generated test scripts and an intuitive HTML-based user interface (UI) to remotely execute test scripts, collect results, and generate test reports that verify exact requirements.

Testing is flexible. You can orchestrate one test (test script) or a series of tests (entire test group), precisely track each test step in a detailed execution log, and customize your test reports. TestExec is built upon ARKA's flexible SOFTLINK® software-defined architecture, so it integrates seamlessly with ARKA software applications and software.

BENEFITS

ARKA's TestExec offers automation, visual test reports, flexibility, and test tracking, minimizing error and improving efficiency and usability for the customer.



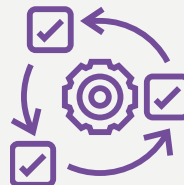
AUTOMATION

Execute test scripts automatically with auto-generated test reports.



VISUAL TEST REPORT

Customize and easily navigate test reports with graphs, plots, etc.



FLEXIBILITY

Generate tailorable Python scripts that seamlessly integrate with our software.



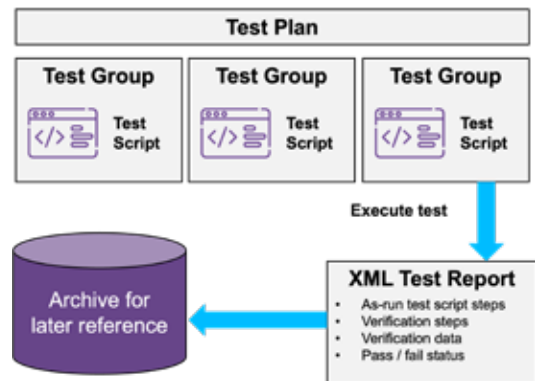
TEST TRACKING

Follow as-run step-by-step execution log and archivable test reports.

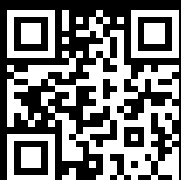
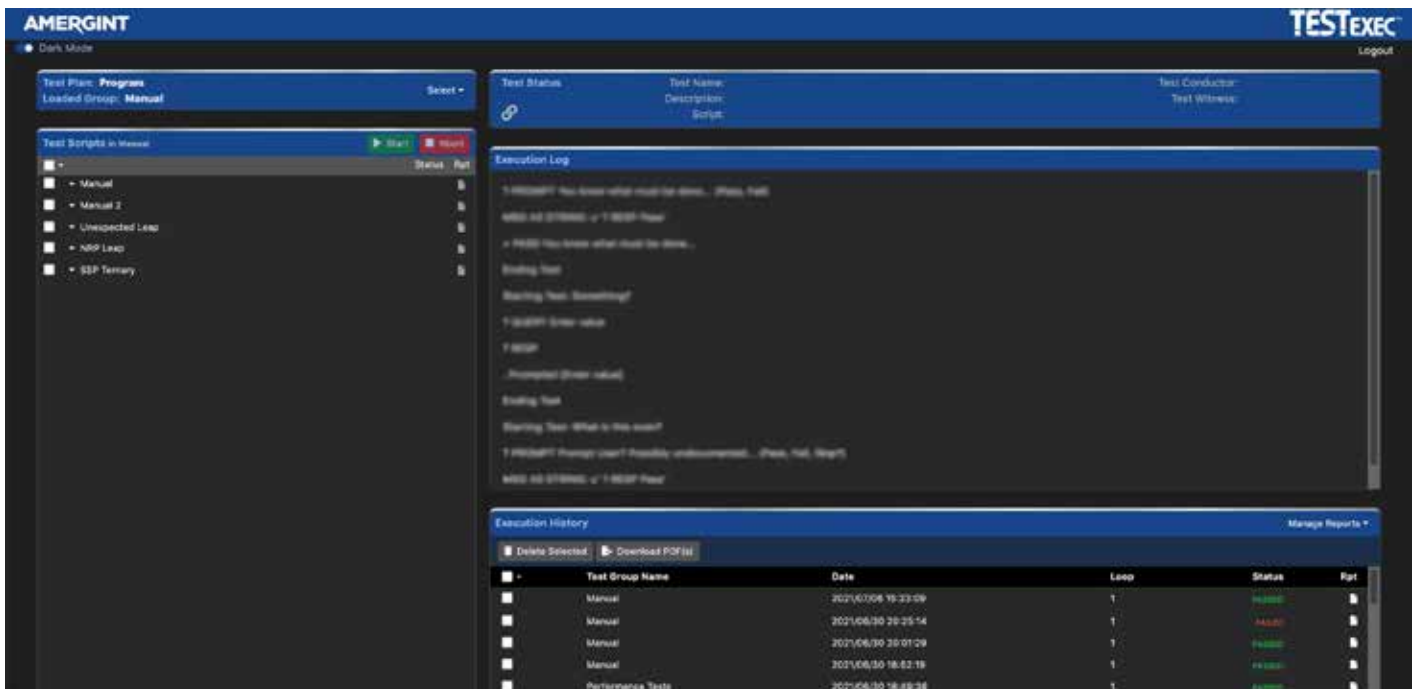
HOW TestExec WORKS

TestExec relies on modular, building block test scripts. At the beginning of the automated test execution process is test plan selection. Test plans are accepted tests for an ARKA system. Each test plan contains individual test groups, which are a collection of test script(s) that have been grouped based on common characteristics. For example, a "Lighting" test plan might contain a "Circuit" test group. The Circuit test group might contain test voltages, battery temperatures, external power, and other test scripts.

You can execute a single test script, a few test scripts, or all test scripts (test group). As a test script executes, it logs as-run test steps, verification steps, and verification data to an XML file. The TestExec Report Builder then compiles those results into a customizable, easy-to-navigate test report.



Test reports are saved for each executed test script and are easily saved for archiving. Within the test report, a pass / fail status for each test script requirement is determined and recorded. Using Python's graphical libraries, the test report can also show the results of measurements, produce calculations, generate graphs, and include screen captures as part of the file.



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