

## ICAUTOMATA | Test and Automation Engine

IngeniComm's icAutomata Automation and Test Engine software represents the next generation of ground system and test automation. icAutomata utilizes the flexible, user-configurable feature set of the IngeniComm Configurable Ground Systems (CGS) product with a procedure-driven automation engine.

### Builds on CGS - One System, Beginning to End

The concept of operations envisioned by the CGS model relies on the inherent flexibility of the modular software architecture and the comprehensive configurability of individual functional blocks to allow a single system to remain useful for the entire lifecycle of a project, program, or mission. A CGS-based system can support development and prototyping during the design and integration phases of a mission, transition to test and certification activities once development completes, and finally undergo deployment into live operations, allowing immediate deployment of an already proven solution and avoiding unnecessary procurement of multiple systems for each program phase.

icAutomata builds upon the CGS model by further easing development, test, and post-operations regression testing by providing a platform to standardize and automate system testing. By automating development and regression tests, it reduces the per-test-cycle time component, and keeps engineering focus on development and issue resolution.

### Easy Local and Remote Configuration

The icAutomata software can be controlled either locally or remotely via a rich web-based graphical user interface. It also incorporates a REST API for ease of triggering automation scenarios, which allows future automation and scripting capabilities.

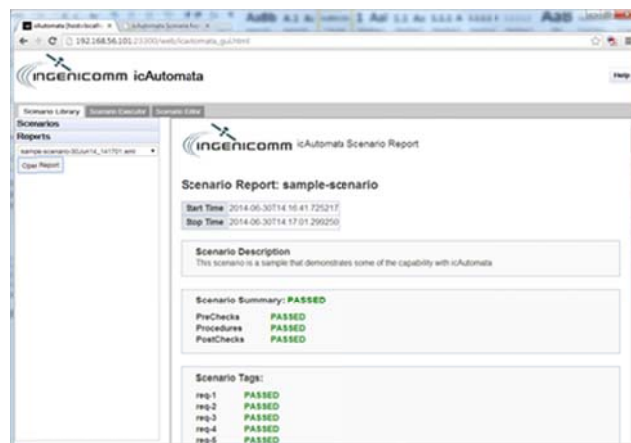
### Flexible, Multi-Target Testing

The icAutomata engine allows multiple CGS targets to be coordinated together during a test scenario, allowing multiple systems to work together to test different features, process data in parallel, or represent processing at multiple stages of the ground system. Additionally, icAutomata also provides pre-test checking to verify the test environment is in a known good state. This includes configuration files and source data file presence, network configuration, and host connectivity checks.

The icAutomata software allows the user to construct tests of test, incorporating sets of testing into larger test cases. This allows system and test engineers to test construct test scenarios that test all similar functionality with a single click.

### Report Generation

The icAutomata software also produces XML test reports, which can easily be archived and printed from a web browser. The test reports are visually rich, allowing a review to see which test steps passed, and which ones did not. The requirements tagging feature also allows a master requirements table to be produced at the beginning of a test report. This feature makes it very easy for the test review and engineering team to know which requirements tagged in a scenario are not met.



### Key Features

- XML-based test scenarios
- Rich web-based GUI w/ Remote REST API
- Comprehensive test scenario construction w/ environment validation
- Test report generation with requirements tagging

IngeniComm, Inc. is a leading provider of ground and range equipment and enterprise engineering services for civil and commercial aerospace programs, as well as the defense and intelligence communities. To learn more about IngeniComm's service and product offerings, visit <http://www.ingeniComm.net> or contact IngeniComm at [info@ingeniComm.net](mailto:info@ingeniComm.net) or +1-703-943-7236.