



# Evaluating Automated Test Solutions

*Summitek Instruments, Inc.*  
*Englewood, CO, USA*  
*[www.SummitekInstruments.com](http://www.SummitekInstruments.com)*

# ***Goals of Test Automation***

- Reduce test costs
- Archival Data Storage and Retrieval
- Configuration Management of Test Process and Acceptance Criteria
- Accuracy of test results
- Customer confidence
- Cross-enterprise access

***The extent to which you realize these goals depends upon the quality of the solution implemented.***

# *Alternatives*

- In-house development
  - Building on freeware
  - Complete development
- Out-source to consultants
- Invest in a commercial solution

# ***Checklist for evaluating alternative solutions***

- Professional development
- Robust and reliable
- Ease of Integration
- Cost & schedule certainty
- Usability
- Adaptable and expandable
- Development and support costs
- Data mining utilities for post-processing



# *Professional Development*

- Team of software engineers
- Adherence to a development process
- Code control and management
- Automated test of software
- Official release procedures
- Development tools for planning, bug tracking, design

*Summitek's software team follows a formal, rigorous development process to produce a high quality product that integrates into the existing manufacturing test process with minimum interruption and produces a positive user experience from Day 1.*

*Spartan*

# ***Robust & Reliable***

- Thoroughly tested before it is released
  - Automated testing of the user interface
  - Used within Summitek prior to formal release
- A positive user experience at the outset

***Following a rigorous design process including testing of each function prior to release is key to successful implementation and user acceptance.***

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# *Ease of integration*

- Installed and operational in one day
- Designing tests is simple
- Production test personnel need minimal training
- Immediately begin reaping the benefits of automated test and data management

*In a recent demo, the software was installed, the measurement of a 4 port antenna using a 4 port VNA (10 different s-parameters, with all associated acceptance limits) was defined, and the customer began testing within an hour.*

*Spartan*

# ***Cost & Schedule Certainty***

- Know what you are going to get
- Know when you are going to get it
- Know how much it is going to cost
- No surprises

***When developing a custom solution with in-house engineers or an independent consultant, there will always be cost, schedule and performance risk.***

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# *Usability*

- Simple to understand, learn and use
  - To define the test scenarios
  - To measure and evaluate the results
- Reduces human error as a variable in the test process
- Flexible query tools to retrieve and process data

***The Spartan design architecture and web-based interface has been shaped by user feedback. The result is a clean, crisp, well organized, intuitive user interface with plenty of interactive help when needed.***

***Spartan***

# *Data Management Built In*

- Quickly find & retrieve archived data
- Quality measures
  - First pass yield
  - Statistical analysis of results
  - Trend analysis
- Identify the variables that impact your business
- Web-base interface makes data access simple from any computer on your company intranet

***An often overlooked part of an automated test solution is the data mining infrastructure to allow deeper looks into the test data.***



# ***Adaptable & Expandable***

- Standard and Multi-port s-parameter tests and network analyzers
- Passive Intermodulation (PIM) test
- Use different network analyzers without redefining your tests
  - Agilent/HP
  - Anritsu
  - Rohde & Schwarz
- Use the same test routines everywhere in the world
- Perform data analysis and statistical processing
- Flexible architecture to add new test types

***Our goal is to provide a robust and powerful test solution that adds value to you and your customers.***

***Spartan***



# ***Your Investment***

- Low cost relative to any alternative
- Low installation and integration cost
- Low training cost
- Annual maintenance contract adds to the value
  - New releases
  - New features
  - New capabilities
  - Product enhancements

***When considering the entire product life cycle cost and overall cost and benefit to the organization, Spartan offers many advantages.***

***Spartan***



# ***A Step Change in Test Automation***

- Businesses today depend on proven technology to manage their ERP and CRM data.
- But, when it comes to automating the test process, custom applications have been the only solution - until now.
- The capable, flexible, usable, and affordable automated test solution has arrived.

**☑ *Spartan***

Check it out – [www.SpartanTest.com](http://www.SpartanTest.com)

Contact us for a demo!

+1 303.786.8080

[sales@SummitekInstruments.com](mailto:sales@SummitekInstruments.com)