

Company Overview

Summit Test Solutions has been providing engineering services for the Automatic Test System (ATS) industry since 2004. Summit has extensive experience in ATS software and hardware development and integration for the Navy, Air Force, Army and commercial industry. For years we have been a member of the DoD ATS



Framework group, specifying requirements for all the DoD services. Summit has been a key contributor to the ATS industry-accepted IEEE Automatic Test Markup Language (ATML) standards and has developed tools to implement these standards. With broad experience in all phases of ATS programs, Summit is uniquely qualified to provide robust cost effective solutions to the ATS industry.



*Superior
Results
Through
Innovative
Test
Technologies*



SUMMIT TEST SOLUTIONS

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Services

With a wide range of ATS experience, Summit Test Solutions has the depth of knowledge to perform on a broad spectrum of ATS projects. From proposal development, trade studies, to hands-on TPS design and integration, Summit is your solution in ensuring a successful program. The following are some areas we are available to assist:

- TPS design, development and integration
- ATML file generation
- ATML implementations
- ATML custom software tools
- ATS Hardware and Software integration
- Instrument driver development (IVI, VXI plug&play)
- Test Requirements & Test Strategy analysis and generation
- TPS Independent Verification and Validation (IV&V)
- ATS proposal support
- ATS trade studies
- ATE evaluation and selection

Software Experience

C, C++, C#, ATLAS, ATML, XML, L200, LabWindows/CVI, LabVIEW, TestStand

Software Products

Through the development of innovative tools, Summit has been applying its vast ATS and ATML standards experience to help alleviate some significant challenges in the TPS arena. In addition to the following products, we are available to develop custom TPS support tools to address the specific challenges on your project.



ATML Test Equipment Editor

Guides the User in the creation of ATML Test Station or ATML Test Adapter instance files that are compliant with the IEEE ATML Standards. This tool provides the capability to create ATML files without requiring the knowledge of ATML or the XML standard.

ATML Test WireLists Generator

Guides the User in the creation of ATML WireLists instance files that are compliant with the IEEE ATML Standards. As in the Test Equipment Editor tool, this tool provides the capability to create ATML files without requiring the knowledge of ATML or the XML standard.

Automated Test Diagram Generator

Generates Test Diagrams automatically from ATML instance files. Test Diagrams show the routing of signals for each test in a Test Program. This tool eliminates the lengthy manual process of analyzing schematics and TPS code to generate test diagrams rather relying on the data in the ATML instance files for auto-generation of test diagrams.



Core Competencies

Summit has extensive experience in a wide variety of ATS related areas, with experience in TPS development and integration, test adapter design and TPS field support on a number of major DoD programs. Additional experience includes TPS monitoring and TPS sell-off. We have been a major contributor to the IEEE ATML standards and have leveraged this experience as part of a NAVAIR Phase II SBIR to develop ATML tools, resulting in reduced cost and schedule for the life-cycle of a TPS. Summit is available to consult in implementing ATML on a variety of programs. Our engineers also have experience integrating ATE hardware and software on a number of different DoD and commercial test stations, possessing key troubleshooting and analysis skills for digital, analog, optical and RF circuitry. Included in Summit's experience is the generation and integration of instrument drivers compliant with the IVI and VXI plug&play standards. We have generated numerous trade studies and technical papers related to ATS technologies. Summit's experience includes work on programs for the Army, Air Force, Navy and commercial industry in support of a wide array of weapon systems (aircraft, radar, missile, combat vehicles) as well as satellite and complex commercial electronics.