



Navy SBIR/STTR Success



Multiple Function Distributed Test and Analysis Tool (MFDAT)

MFDAT/ADEPT represents a major step forward for electronic test equipment. By combining modular instrumentation solutions with automated testing processes and distance support technologies, the readiness of electronic systems is improved.

Topic Number: N02-039

SBIR Investment:
\$1,100,636

Phase III Revenue:
\$9,016,185

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About the Technology:

The Multi-Function Distributed Analysis Tool (MFDAT) program resulted in the development of ADEPT®, Adaptive Diagnostic Electronic Portable Testset, which is an intelligent, semi-automated, programmable electronic test tool designed to aid technical personnel in the maintenance, alignment, calibration, and error diagnosis of complex electronic systems. ADEPT eliminates the need for traditional manuals, paper documentation and discrete test equipment and eases the burden on electronic technicians by integrating the required test equipment functionality and automating the testing processes.

Naval Benefit

ADEPT's test automation has been shown to reduce the time it takes to perform periodic maintenance by 50% or more, while also greatly reducing operator errors. ADEPT is currently in use aboard US Navy Cruisers and Destroyers, where ADEPT's time savings, ease of use, and distance support capabilities are important in reducing the high workloads of AN/SPY-1 radar technicians. ADEPT also includes specialized test equipment that allows technicians to better align the AN/SPY-1 radar more efficiently and without additional training. The ability to standardize on a common instrumentation interface across all systems also shows great potential in improving the efficacy of maintenance training and reducing the overall maintenance training time requirements for many electronic systems.

Transition

Mikros expects to deliver an additional 35 ADEPT Units to the Navy during the first quarter of 2013, bringing the total number of units delivered to 139 over the past five years. Mikros has secured a contract to supply ADEPT variants to the Littoral Combat Ship - a 55-ship program that includes the USS Freedom. The LCS program represents a substantial new market for ADEPT Units. Mikros is also proposing to apply ADEPT to conditioned-based maintenance applications on other naval platforms, such as amphibious ships, carriers and submarines. Combined, these platforms have the potential to generate wide placement of ADEPT Units and multiple additional orders throughout the Navy.



Mikros Systems Corp

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