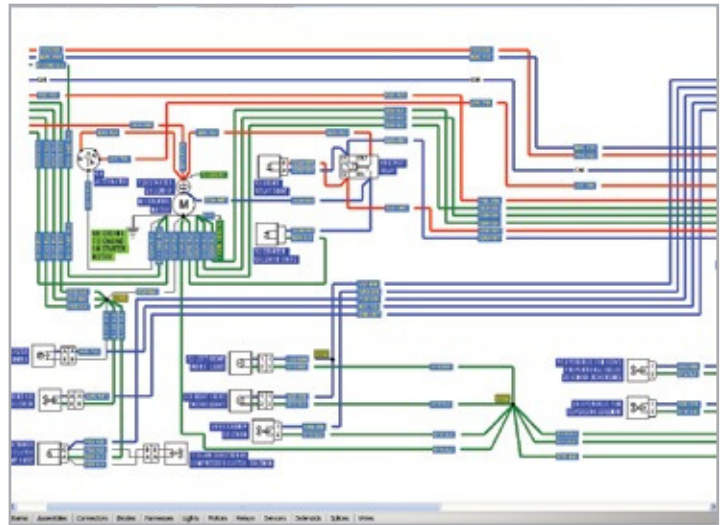


## p2Trace™ Overview

- An integral part of the Digitized Schematic Solutions LLC, Digital Schematic Tool (DST) application
- Is especially effective when working with large, complex schematics associated with many weapons systems
- Allows for easy navigation and viewing
- Facilitates instantaneous access to any schematic, component or wire
- Permits instantaneous drill-down capability on a specific signal from the highest level (e.g., system interconnect diagram) to the lowest level (e.g., active component) of any individual schematic
- Interactively traces signals and flows through a system, showing accurate paths through cables, connectors and backplane wiring harnesses
- Allows for markup of individual schematics
- Comprehensive context sensitive help file gives detailed instructions for every feature and function in the application
- Integrates seamlessly with the DSS p2Sim™ application
- Can be readily employed as a stand-alone tool, or integrated within the troubleshooting procedures of any existing Interactive Electronic Technical Manual / Electronic Technical Manual (IETM / ETM), including the S-1000D IETM standard
- Effectively supports troubleshooting and on-the-job (OJT) / traditional classroom training requirements
- Is reported to reduce Mean Time to Repair (MTTR) by as much as 40%
- Proven to reduce troubleshooting research time from hours to minutes for suspected failures associated with system wiring or cabling
- Currently employed on many U.S. DoD / U.K. military programs – Lauded by all



### Description / Purpose

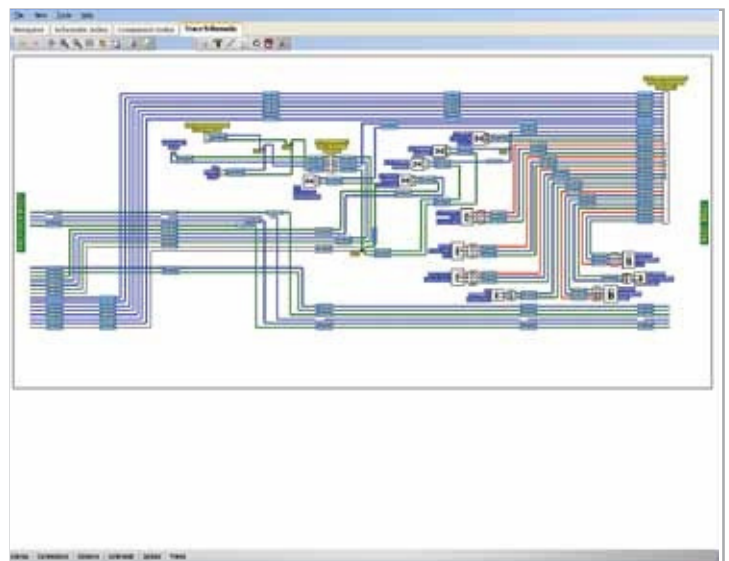
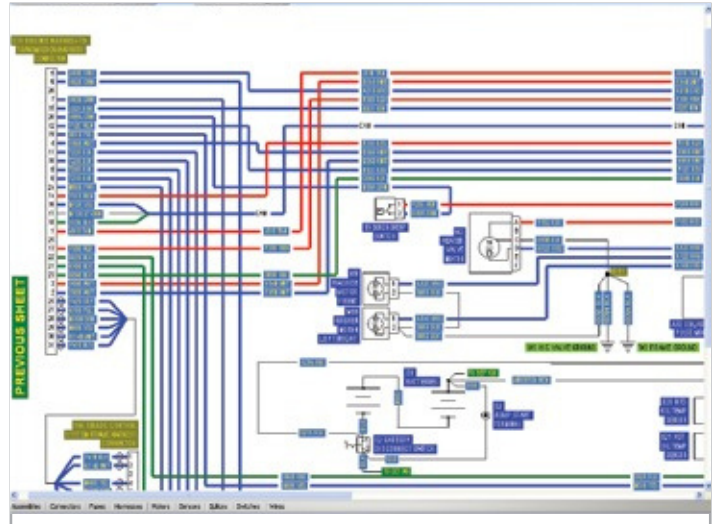
Troubleshooting is one of the major problems facing the technician / maintainer in effectively performing maintenance on most electronic systems. Most every technician / maintainer has seen a “perfectly good component” appear to malfunction because of a bad cable connector or backplane wiring harness. If determined to be the result of defective wiring, finding the specific failure can often require hours of researching technical data, which more often than not is located in one or more technical manuals. p2Trace™ reduces research time from hours to seconds by systematically eliminating wire tracing problems and providing the user with an interactive, automated map of every signal in the system, from its origin to its termination. This interactive map is pre-colored to depict signal, ground and power. This colorization feature enhances learning by differentiating the various traces by a specific color.

Wire list data is much more simplified in p2Trace™ since it is handled by a relational database because p2Trace™ uses state-of-the-art Computer Graphic Metafile (CGM) Level 4 vector graphics throughout and there is no loss of graphic integrity through pixilation, as is common with many other graphic formats. The user can click on a signal or wire and instantly see where the signal goes. The signal automatically continues through all supporting schematics and is readily accessible through sheet-to-sheet hyperlinks.

p2Trace™ graphically follows the logical relationships of the signal within the system. The powerful combination of a relational database and intelligent graphics allows p2Trace™ to process even the most complex signal relationships quickly and more accurately.

## The p2Trace™ Process

- Schematics are initially converted from any format, including paper, into intelligent CGM Level 4 Vector graphics
- Schematics are analyzed by the DSS engineering staff and signal paths and types are pre-identified for colorization and then catalogued
- Components are identified and organized by standard type
- CGM Graphics and metadata are entered into a relational database
- ADSS customized viewer is designed and developed with selectable pull-down menus to enable the user instant access to all available data including specific schematics or components



P2TRACE™ IS A PRODUCT OF DIGITIZED SCHEMATIC SOLUTIONS (DSS) LLC, WESTLAKE VILLAGE, CALIF.