

Digitized Schematic Solution (DSS) LLC employs a teaming concept for Interactive Electronic Technical Manual / Interactive Electronic Technical Pamphlet / Electronic Technical Manual (IETM / IETP / ETM) development which ensures full compliance with all of the latest IETM / IETP / ETM developmental standards, including the S-1000D. The team is fully capable of producing SGML / XML driven IETM / IETPs for any of the popular commercial viewers currently available in the marketplace.

The developmental team, which occasionally includes subcontract assistance, has extensive experience in the design and development of IETM / IETP / ETM viewers and conversion of virtually any type of technical data into acceptable electronic format. IETM / IETPs are generally based on common Standard Generalized Markup Language (SGML) or eXtensible Markup Language (XML) models that reflect industry standard Document Type Descriptions (DTDs) and their associated markup tag sets.

Our teaming concepts ensure compliance with the S-1000D specification and its use of XSL style sheets (currently converted from HTML) for rendering display in Internet Explorer. WIN CGM is currently being readied for transitioning CGM graphics to the WWW environment through a Document Object Model (DOM), an XML companion file (display interface) and an extensible DTD.

The Typical IETM / IETP / ETM Development Process

Paper documentation has migrated to electronic format mainly for use in IETM / IETP / ETMs to facilitate rapid update capability while simultaneously reducing overall cost and increasing accessibility of pertinent technical data. Conversion of technical data is routinely a four-step process, as is converting that data into an IETM / IETP or ETM

Technical Data Conversion

- Document Analysis – Defines structure and format
- Document Conversion – For paper documents, scanning and Optical Character Reader (OCR) is required and is saved as Rich Text Format (RTF). Electronic text is then parsed to RTF. Graphic and illustrated line art is converted to Computer Graphic Metafile (CGM) Level 4 to enable insertion of intelligent hot spots, when required
- SGML / XML Tagging – Element attributes and character entities are used throughout the process which retain hyperlinks and are authored between paragraphs, tables and figures
- Quality Control – On-going quality control throughout the process ensures error correction and the final RTF document is thoroughly checked for completeness of content, including all text, tables and graphics. Sophisticated diagnostic processes are used to ensure that the final product accurately reflects all of the content and structure of the original document.

IETM / IETP / ETM

- Existing (legacy) text (paper or electronically formatted) is thoroughly analyzed and converted to SGML or XML tagged files, as specified by the user
- Existing graphics are analyzed for conversion according to customer directions (vector or raster)
- If input is electronic, the data is processed to render SGML or XML tagged files in accordance with the specified DTD
- Hypertext links are applied using software toolsets applicable to the specific IETM vendor or commercially acquired off-the-shelf
- COTS or vendor-supplied display viewers are used to render information to a formatted IETM / IETP presentation.

IETM / IETP / ETM IS A PRODUCT OF DIGITIZED SCHEMATIC SOLUTIONS (DSS) LLC, WESTLAKE VILLAGE, CALIF.