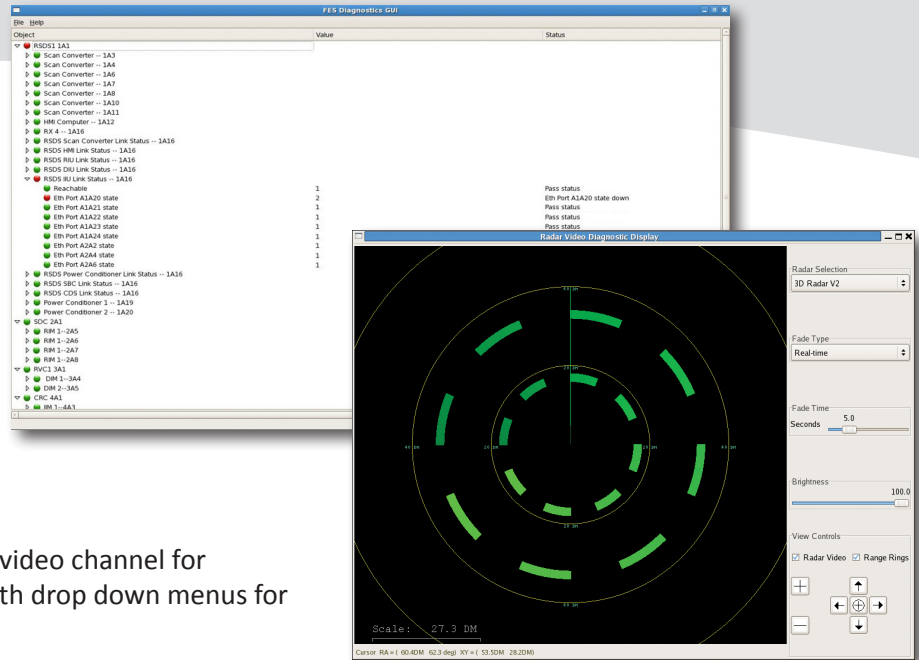## System Diagnostics

- Powerful integrated system diagnostics tools

- Quick and accurate troubleshooting

- Simple Network Management Protocol (SNMP)

Diagnostic Display Software provides overall system health status information relating to the monitored devices in the system.

Diagnostic Video Display Software displays a single video channel for diagnostic purposes, providing a viewing window with drop down menus for channel and radar range selection.

Diagnostic Status Server Hardware provides an SNMP interface to custom diagnostic parameters.

Application Program Interface (API) Software allows application developers to support customized diagnostic status reporting at the remote locations. By using APIs, developers can choose to integrate the Diagnostic API with the application to meet customer requirements.

Interactive Electronic Technical Manuals (IETMs)

Are cost-effective alternative to printed materials, which are often cumbersome, heavy, and expensive to maintain.

Provide quick access to technical information in a portable, electronic format, reducing time to operate, maintain, and troubleshoot equipment.

Provide a maintenance and training aid, presenting technical information in a user/learner-centric architecture with intuitive access and searchable content.

Advantages of an IETM

- Electronic format provides streamline access to information with multiple paths to related information.

- Technical information is specifically matched to the system configuration as required.

- IETMs require less physical storage space than paper manuals.

- Intuitive architecture increases the effectiveness of technicians, reducing technician time for troubleshooting, maintenance, and parts ordering.

- IETMs are easier to navigate and are more universally accessible than paper manuals.

Experience

Our in-house technical writing staff specializes in content creation and review, life cycle management, and multiformat/media publishing. Our staff is integrated within the engineering team to fully understand the equipment to develop IETM and training materials.

We have proven experience in IETM development for the DoD in accordance with specifications from Electronic Technical Manual Operation Plans (ETMOP) and Technical Manual Contract Requirements (TMCR).

Portable Maintenance Assistant (PMA)

Put the power of diagnostics and the IETM in the palm of your hand! Introducing our new, innovative solutions using the latest in portable device technology to reduce training and manpower required to maintain equipment.

The PMA is specifically designed for technicians in need of fast, portable information. It is a tablet-based integration of tools designed to offer the functionality of an IETM and diagnostics through status monitoring and remote video displays, all within one small, portable unit.

Advantages

- The PMA is compact and ergonomic, giving you plenty of room in places too awkward for a laptop computer. Its lightweight and handy characteristics let you use it in tight maintenance areas.

- The Commercial Off the Shelf (COTS) tablet reduces time to market and Non Recurring Engineering (NRE) expenses.

- The mobility of the tablet lets you take your maintenance tools with you wherever you go.

- Our PMA applications provide access to Interactive Electronic Technical Manuals (IETM), system diagnostics monitoring software, radar or camera video displays, and other tools.

- Third-party applications and tools are compatible with the PMA, giving you an infinitely expandable toolbox.

PMA Applications

Our PMA applications include the following:

Maintenance Assistant

Maintenance Assistant uses a 2D Barcode or QR Code Scanner and the integrated tablet camera to access a vast library of information about specific equipment, including: Configuration Data, Troubleshooting Diagrams and Procedures, Removal and Replacement Procedures, Parts Information, Operation Controls and Indicators, Functional Descriptions, and Cabling Wire Diagrams.

Video Display Assistant

With Video Display Assistant, the PMA can connect to and view video from selectable channels as desired by the maintenance technician.

Video Display Assistant can be configured to view radar video when used with Frontier Electronic Systems' LRADDS technology or camera video from our LVDS platform.

Diagnostics Assistant

Diagnostics Assistant is a live, portable diagnostics monitor. This application provides system health status of any existing equipment remotely.

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