



Integrated IETMs Keep Equipment at Peak Performance

Summary

The mission of Mindware's IETM products is to provide equipment operators, mechanics and maintenance supervisors with interactive electronic technical manuals, a digital preventive maintenance process, integrated parts selection process and access to real-time logistics information.

Challenges: Improve Maintenance, Reduce Errors, Cut Costs

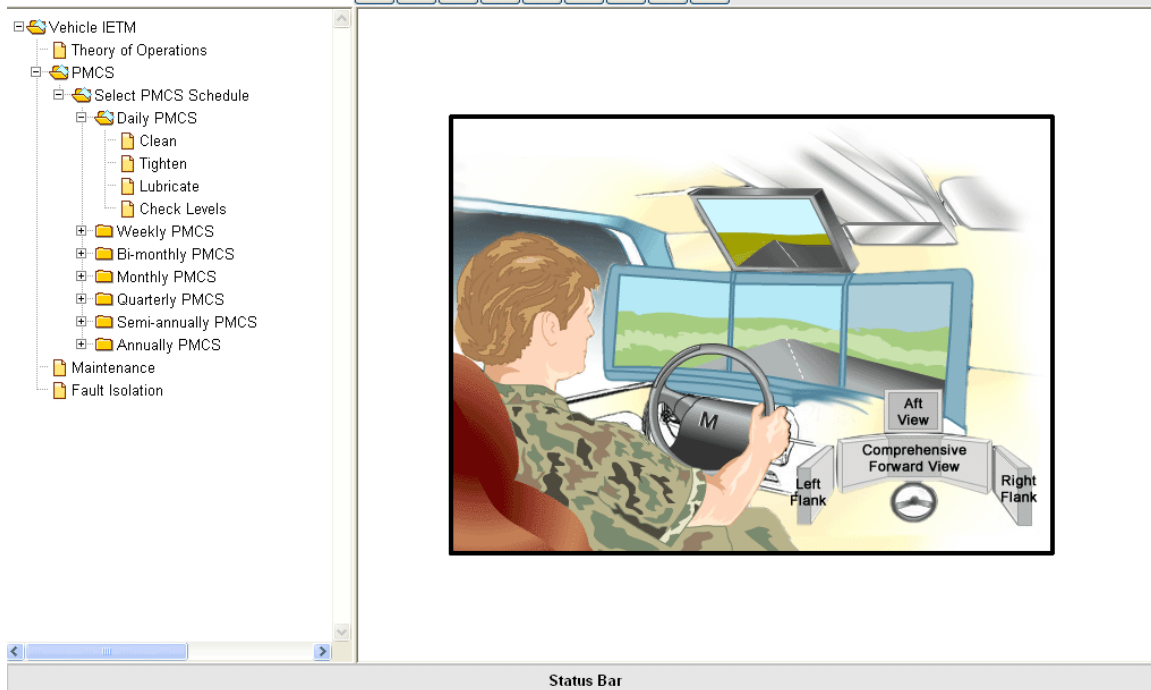
The US Army wants to improve the battlefield maintenance and logistics capabilities of its equipment.

This equipment, when deployed in the field, needs ongoing service and support. Trained maintenance personnel are not always readily available meaning combat soldiers need to be able to maintain their equipment quickly and effectively on their own, in the field, even though they are not fully trained on service procedures.

The goals are to reduce:

- Instances when equipment in combat has to be taken out of action for repair
- Logistics footprint through maintenance efficiencies
- Parts ordering errors
- Costs of printing maintenance manuals

Vehicle IETM



An interactive electronic technical manual (IETM) is not a linear type of document as you find in Microsoft® Word files or PDF files. It resembles more of a web site where you click a limited number of times to navigate to the desired information.

IETM viewer which makes it 100% compliant with MIL-STD-40051 and content producers have full control over the Table of Contents, per MIL-STD-2361C.

IETM includes functionality such as:

- **Hotspotting**
The ability to define hotspots in graphics enables the user to pull up an explanatory topic with a single click.
- **Graphics/hypertext synchronization**
Automatic synchronization between the graphics panel and the hypertext panel enables the user to open a topic with graphics automatically displayed.
- **ToC control**
Content producers have full control over the Table of Contents, per MIL-STD-2361C.
- **External control**
An external application, such as a separate learning tool, can call the viewer to display IETM content.

In addition to compliance, we have also included:



- **Highlighting**

Especially useful for procedure-based information, more granular highlighting enables the user to select a step in a procedure and navigate directly to the next or previous step.

Graphics overhaul

A thorough overhaul of graphics capabilities delivers functionality such as scrolling and zooming in the graphics pane.

This IETM contains instructions for the assembly and operation of the Lightweight Counter-Mortar Radar (LCMR) Radar Set System, herein referred to as the System. Instructions are also included for simple preventive maintenance procedures. This IETM is intended to be used by personnel who have been trained on its operation and have a basic understanding of radar concepts.



SCREEN LAYOUT:

The IETM screen provides an efficient method for finding information about the AN/TPQ-48 System. It is composed of six information areas:

IETM Screen Component	Description
Table of Contents (TOC) Pane (1)	Navigation hierarchy of IETM content. Click the plus (+) icon to expand the hierarchy levels and click the minus (-) icon to collapse them. The right border of the TOC is resizable. It can be dragged to increase or decrease the size of the pane.
Graphics Pane (2)	Displays graphics or videos that help in understanding the information that is displayed in the Content pane.
Content Pane (3)	Descriptive or procedural text associated with the selected topic in the TOC pane. The top border of the Content pane is

	resizable. It can be dragged to increase or decrease the size of the pane.
Navigation Panel (4)	Consists of the subtitle bar and main menu bar. The subtitle bar specifies the title of the topic currently selected in the TOC and the main menu bar is a group of navigation and control buttons.
Classification Bar (5)	Identifies the security classification of the IETM.
Status Bar (6)	Displays an alert icon when the current information in the Content pane has a warning or caution associated with it. Click the alert icon to redisplay that warning or caution.

NAVIGATING THROUGH THE IETM: There are a number of ways to move through the IETM:

- Using the Table of Contents (TOC).
- Clicking the Previous and next buttons in the Main Menu bar.
- Clicking the Back and Forward buttons in the Main Menu bar.
- Using the keyboard arrow keys.

Use the TOC to move from topic to topic. When you click a topic in the TOC, the information or procedure for that topic is displayed in the Content and Graphics panes.

After moving to a topic, it is important to use the Previous and Next buttons to move from paragraph to paragraph and from step to step within a procedure. When moving through the paragraphs and procedure steps, the paragraph or step is highlighted and more importantly, the graphic or video for each paragraph or step is displayed in the Graphics pane. If the paragraph or step is not highlighted, the graphic or video for that item will not be display. (Note that not all paragraphs or procedure steps have a graphic or video associated with them, although most procedure steps do. If a topic does not have a graphic or video, the Graphics pane will be empty.)

The Back and Forward buttons move back and forward through the previously viewed topics. This feature is like the Back and Forward feature of a traditional browser.

You can also use the arrow keys on your keyboard to move through the IETM. After you click on the scroll bar in the Content pane, you can use the keyboard arrow keys to move from paragraph to paragraph and from step to step within a procedure. When you click in the TOC pane, you can use the keyboard arrow keys to move from topic to topic.

LINKS:

All links in the IETM are underlined and blue, and become underlined and purple when the link has been previously visited. Click the link to jump to another section for additional information. When finished reviewing that information, click the Back button to return to the top of the original topic.

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**WARNING, CAUTIONS, AND NOTES:**

Warnings, cautions and notes are used throughout the IETM. When a topic contains a warning, caution or note, these items are displayed in a pop-up and must always be acknowledged before proceeding. Nothing else in the IETM will function until the warning, caution or note is acknowledged.

After a warning or caution has been acknowledged, the status bar displays an alert icon for each warning or caution.

DISPLAY OF PARTS AND TROUBLESHOOTING INFORMATION:

Parts information for Line Replaceable Units (LRUs) and spares is found in Equipment Description.

The IETM also includes troubleshooting information. It incorporates flowcharts for troubleshooting a problem. The flowcharts contain one or more embedded links that link to the procedures referenced.