



## US Army Integrated IETMs Keep Equipment at Peak Performance

### Summary

The mission of the Tactical Logistics Data Digitization (TLDD) Program is to provide the US Army's equipment operators, mechanics and maintenance supervisors with 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 medium- and light-armored fighting vehicles.

These vehicles, when deployed in the field, need ongoing service and support. Trained maintenance personnel are not always readily available meaning combat soldiers need to be able to maintain their vehicles 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 these combat vehicles have to be taken out of action for repair work
- Logistics footprint through maintenance efficiencies
- Parts ordering errors
- Costs of printing maintenance manuals

### Solution: Class V IETM Reads Faults Codes, Presents Relevant Service Information

The US Army will field test [Enigma's Defense IETM Solution](#), based on the [Enigma 3C® Platform](#) for the Stryker Brigade Proof of Enablers demonstration. The Enigma system, which integrates and is compliant with US Army standards, will provide soldiers with all

of the diagnostic, service and repair information needed to support a combat vehicle while in the field.

Enigma's solution, with an Interactive Electronic Technical Manual (Class V IETM) at its core, will tie together all of the maintenance, parts and service information but will only present information that is relevant to the specific vehicle and the specific problem. This gives the crew a complete view of the required troubleshooting, maintenance and repair tasks that need to be performed, with instructions formatted according to a soldier's level of proficiency.

The system will automatically diagnose fault codes from each vehicle's on-board computer and immediately deliver repair instructions and parts information to the crew. Via the battlefield wireless network, the same information can be uplinked to the Army's Unit Level Logistics Systems (ULLS) for checking parts availability, automated part requisitions, storing vehicle faults and scheduling higher-level maintenance.

The Enigma-based system will also report fault codes back to the US Army's equipment inspection and maintenance program to allow prognostic analysis and for suggested preventative maintenance and services that can potentially extend the life of each vehicle.

Ultimately, Enigma delivers a Web-based dynamic product encyclopedia of maintenance and repair information for a unit's combat vehicles, which helps soldiers keep equipment operating at peak performance.

### **Benefits: Increased Equipment Uptime & Readiness, Significant Cost Savings**

With Enigma's integrated maintenance and logistics solution, more maintenance can be performed in the field increasing equipment uptime and readiness, cutting down on the workload in the depot, reducing the logistics footprint and improving field maintenance.

By linking logistics and supply chain management (SCM) to the weapon system the mis-order rate for parts, which costs the Army more than \$80 million per year, can be dramatically reduced.

The increased efficiencies realized with Enigma will help the US Army achieve its goal of reducing its number of mechanics by 66%.