

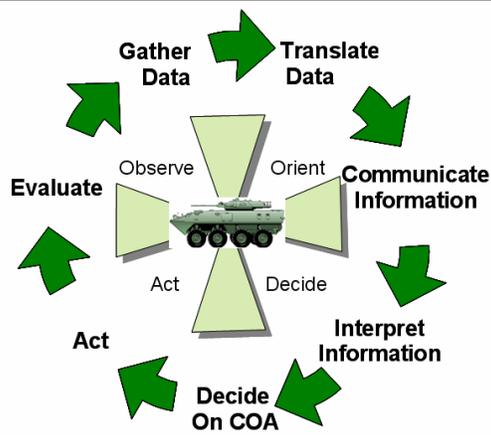
IUID

Item Unique
Identification

US Marine Corps Light Armored Vehicle Sense and Respond Logistics

Unique Identification Policy Office Integration Project





The Sense and Respond process.

To improve the identification, tracking, and management of Department of Defense (DoD) assets, the Office of the Secretary of Defense has funded multiple projects, including the United States Marine Corps Light Armored Vehicle Sense and Respond Logistics Integration Project.

Description

This project integrated Item Unique Identification (IUID) into the Light Armored Vehicle (LAV) Sense and Respond Support System (SRSS) project. In this project, the Program Manager – Light Armored Vehicle (PMLAV) partnered with Navy Distance Support (DS 2.0) to explore the capabilities, define the requirements, and identify the measurable benefits of Sense and Respond in the LAV. The worth of all related systems can be more accurately assessed if they are evaluated and demonstrated together as part of an integrated system. This project provided a unique opportunity to calculate the risks and benefits of IUID incorporation on a legacy platform.

One major component of the SRSS project is the maintenance management application, JAMISS, developed by DS 2.0. This Joint Asset Maintenance Integration Support System tracks maintenance actions, vehicle usage, configuration, and location. JAMISS was unusually well positioned to accommodate IUID and integrate it into the LAV SRSS project because of its ability to house IUID data and interface with all relevant systems, including the IUID Registry.

In the first phase of this project, the DS 2.0 / PMLAV Sense and Respond team installed sensors on 10 LAVs and incorporated IUID capability into the existing JAMISS program as a proof of concept to demonstrate benefits. In the second phase, JAMISS was rewritten as a web-based application, enabling visibility by all authorized stakeholders and making it possible to integrate seamlessly with the IUID Registry.

JAMISS's established ability to incorporate IUID data presents PMLAV the opportunity to reap all the benefits of Serialized Item Management immediately following UID DataMatrix marking of LAVs at the maintenance depots. The combination of sensor-supplied enhanced asset health information with UID's ability to provide exact item data (age, history, source, warranty, etc.) multiplies the benefits of both of these LAV SRSS project segments.

Challenges

Challenges for this project included:

- ◆ Rewriting JAMISS as a web-based application
- ◆ Parts marking
- ◆ Training and fielding in current up-tempo environment

Benefits & Achievements

Sense and Respond infrastructure positioned the USMC to utilize IUID benefits, including those that supported:

- ◆ Performance Based Logistics / Performance Based Outcomes
- ◆ Identifying individual poor performers
- ◆ Reliability Centered Maintenance Analysis
- ◆ Identification of asset configuration to Secondary Repairable/LRU level
- ◆ Tracking usage and service life at Secondary Repairable/LRU level
- ◆ Decision support and prognostics
- ◆ Autonomic logistics
- ◆ Increased operational readiness
- ◆ A greater ability to manage the total life cycle of the system

As a result of this integration project, the capacity to track vehicle usage and maintenance was enhanced. Data was collected for trend analysis, leading to predictive and prognostic capabilities.

Another outcome of this combination of efforts is a much greater understanding of the vehicle, leading to the ability to conduct true Condition Based Maintenance, allowing for desertion of the often counter-productive time-based maintenance of the past.

Utilizing the experience, lessons learned, and benefits obtained during this project, the IUID program is now being deployed across the entire LAV fleet.

Contact

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IUID

Item Unique
Identification

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