

WHITE PAPER

Subject: STATUS UPDATE ON CONDITIONED-BASED MAINTENANCE PLUS (CBM+)
IMPLEMENTATION IN THE MARINE CORPS

Ref: (a) CBM+ Advisory Group meeting of 5 Dec 03

1. Per the reference, the following information is submitted.
2. A Marine Corps policy on CBM+, following the goals and direction of DoD's CBM+ policy, is being drafted and will be staffed for review and comments. The expected date of publication is April 2004.
3. Marine Corps Systems Command (SYSCOM) is the Commandant's principal agent for equipping the Operating Forces to accomplish their warfighting mission. As such, the Program Manager's assigned to SYSCOM will be the primary agents responsible for the implementation and management of CBM+. However, with the myriad of weapon systems in the inventory, a decentralized implementation of CBM+ would be difficult to manage and control.
4. Accordingly, the vehicle for implementing and overseeing CBM+ in the Marine Corps is a program called Autonomic Logistics (AL). The scope of AL is beyond just CBM+ but it will provide the required centralized management, program oversight, and necessary funding to ensure successful implementation across all weapon systems. AL is competing for funding in POM-06.
5. The vision and goal of AL is to provide the capability within the operating forces for ground tactical equipment to automatically generate and transmit critical system data (location, direction of movement, speed, fuel, ammunition levels, diagnosis/prognosis, and cargo) from the battlefield to remote monitoring stations for processing. This information, in support of systems, would be in "real to near real time" and it is expected that the data transmission would be triggered by an event (time, movement, or condition) or when remotely queried. The manager of AL will be responsible for reviewing all future weapon procurements for possible AL application and will periodically review (timeframe to be determined) all legacy systems for AL application also. The present plan for AL is to apply and test the program on a portion of the Marine Corps' LAVs (Light Armored Vehicle) and the MTRVs (Medium Tactical Vehicle Replacement). In support of AL, a program called Electronic Maintenance Support System (EMSS) is competing in the same POM-06 cycle. EMSS is designed to compliment AL and is expected to be an on system diagnostic aid that will also serve as an IETM (Integrated Electronic Technical Manual) reader and CBT (Computer-Based Training) platform.
6. The timeline for AL is below:
 - a. Apr 04 - AL Program continues through POM-06 process to provide funding to integrate sensor hardware into legacy systems.
 - b. Sep 04 - Demonstration of sensor application in support of the Joint Distance Support and Response (JDSR) system.
 - c. FY05 - Refinements continue on sensor hardware and algorithms. New programs release RFPs (Requests for Proposals) with CBM+ requirements. CBM+ incorporated into Marine Corps policy on Total Life Cycle Management.
 - d. FY06 - If funding is approved, AL Program begins contracting efforts.

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