Tablet Based Repair Management
with Artificial Intelligence (AI)

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SYSCOM: Office of Naval Research (ONR)
www.nre.navy.mil

Program Sponsor: ONR

Other Potential Programs: Naval Air Systems Command (NAVAIR), Naval Sea Systems Command (NAVSEA), Marine Depot Maintenance Command, U.S. AF and U.S. Army Maintenance Communities, Private Industry Maintenance Organizations

Current TRL: 6

Projected TRL: 8 / Q4 2026

Keywords: Predictive Maintenance, Condition-Based Maintenance (CBM+), Digital Twin, Health Monitoring, Data

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Beacon

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Beacon Omega Mini

THE CHALLENGE

The Navy can improve the operational readiness of its ships, aircraft, and ground vehicles with more accurate, granular, and timely data.

THE INNOVATION

The Beacon Omega Mini collects accurate, granular, and timely health data from different types of equipment and is available on Delta and Omega.

THE NAVY BENEFIT

Accurate and timely data helps the Navy improve data quality and identify root causes of equipment failure.

THE FUTURE

The Beacon Omega Mini will improve maintenance and sparing models for more efficient and effective maintenance cycles, conduct more evaluations, collect additional data points, and improve operational readiness.