

# Innovations in Sparing and Maintenance Support

The DoD faces unique challenges in managing its vast and diverse supply chain, including multiple military services with distinct requirements, a wide range of equipment types, and the need for rapid response in dynamic operational environments.

Traditional supply chain systems struggle to keep pace with these demands, leading to inefficiencies in maintenance, repair, and spare parts management.

One Network Enterprises' (ONE) **Spares, Maintenance, Repair and Operations (SMRO)** application offers militaries comprehensive capabilities for managing the entire Maintenance Planning process. Manage all processes through development, execution, and job completion and certification, without costly customization efforts or the baggage of costly sustainment of custom code that cannot be modernized.

Designed to address cross-industry work management planning, execution and certification requirements, One Network's SMRO offers a flexible application suite to manage Maintenance Planning processes and adds immediate value to existing maintenance operations. Its flexible integration capability eliminates "swivel chair" operations across multiple systems while providing a control tower that provides data analytics and the ability to execute plans and actions across existing Enterprise and legacy systems. This enhances existing operations and maximizes past IT investments.

**Spares Management** - Provides end-to-end visibility into spare parts across the supply chain, enabling real-time tracking of location, quantity, and usage. By integrating with product lifecycle management (PLM) and master data management (MDM) systems, SMRO ensures data accuracy and consistency, facilitating better decision-making. With SMRO, logisticians can optimize inventory levels, streamline repair and overhaul processes, enhance supply chain resilience, maximize asset uptime, minimize costs, and deliver superior customer service.

**MICAP Resolution** - Aircraft downtime due to a single hit MICAP priority part can have significant operational

implications, affecting mission readiness and capability. Through real-time visibility into spare parts availability and location provided by SMRO, military forces can quickly identify and address high-priority parts requirements, minimizing downtime and supporting mission success. By leveraging advanced analytics and optimization algorithms, SMRO ensures that resources are allocated effectively to address critical needs. With SMRO, you maintain operational readiness even in the most challenging environments.

**Auto Work Order Generation** – Streamlines the entire process from spare parts management to repair and overhaul. SMRO automatically generates work orders based on demand forecasts, inventory levels, and repair requirements, eliminating the need for manual intervention. This automated approach reduces administrative burden, cuts lead times, and optimizes resource utilization. SMRO reduces downtime and enhances overall operational performance.

**Tracking of Category of Spares** - Advanced tracking mechanisms integrated into the SMRO system, enable logisticians to effectively categorize spare parts based on various parameters such as criticality, usage frequency, and lifecycle stage. This enables precise inventory management, ensuring that high-priority spares are readily available while optimizing resources for less critical items. SMRO gives you real-time visibility into the movement and status of spare parts across your entire supply chain, facilitating informed decision-making and proactive management of inventory levels. SMRO enhances operational efficiency, minimizes costs, and enables effective support for your products and services.

**Replenishment of Spares** – SMRO leverages advanced data analytics and orchestrates across interconnected systems to optimize inventory levels, streamline procurement processes, and ensure timely replenishment of critical spare parts across the network. Prescriptive analytics reduce downtime risks while enhancing operational efficiency. SMRO minimizes costs associated with excess inventory while enhancing reliability and responsiveness, helping to meet operational needs.

**Recalls** - Enables swift and precise identification of affected products during a recall event, using interconnected systems and Smart Prescriptions™. Integrated as a network with various stakeholders in the supply chain, including suppliers, distributors, and retailers, SMRO facilitates rapid communication and collaboration. SMRO enables recalled items to be quickly located, isolated, removed from circulation, and rapidly replaced.

**Supply Chain Integrity** – Creates and manages a digital twin of the supply chain, and enables end-to-end visibility and control over parts management processes, allowing organizations to track, monitor, and optimize inventory with precision. By integrating with existing maintenance systems, SMRO's comprehensive view of the supply chain enhances operational efficiency and reliability while mitigating risks associated with part shortages or excess inventory. The platform's advanced control tower enables proactive and effective decision-making and real-time response to supply chain disruptions. SMRO drives continuous improvement for sustainable success.

SMRO enables more effective Aftermarket process management, with solutions tailored to the unique needs of DoD that provide visibility and control over spare parts inventory, repair, and overhaul operations.

With ONE's advanced control towers at multiple organizational tiers, SMRO optimizes inventory levels, streamlines repair processes, and enhances forecasting accuracy. Organizations meet customer demands quickly, effectively, and efficiently.

**Condition Based Maintenance (CBM+)** - Provides a multifaceted approach to optimizing asset performance and supply chain health. This advanced module uses predictive calculations based on historical and real-time operational data, enabling the ability to proactively respond to forecasts on potential failures. SMRO deploys comprehensive warranty qualification based on the asset's operational history and current data, ensuring proactive identification and management of warranty-related issues. SMRO analyzes the readiness of asset posture and spare parts inventory, providing reports on the overall health of the network. More importantly, SMRO provides execution capabilities, so you can proactively manage inventory to ensure you have the right parts in the right place at the right time.

## ADDITIONAL SMRO CAPABILITIES

**Preventative Maintenance Scheduling** allows users to schedule maintenance activities either on a time-based interval or a meter-based frequency, providing flexibility and adaptability to diverse asset portfolios.

**Supply Chain Integration** eliminates the need for manual data transfers between legacy systems when assets move between activities, are issued within organizational shops, or undergo assembly/disassembly processes.

**Maintenance Work Orders** provides a holistic approach to asset maintenance—flexibility to distribute and segregate tasks and steps across multiple users, allowing for efficient collaboration and task allocation.

**Inspections Quality Assurance** is a solution for executing thorough inspections across assets, subcomponents, and components. It provides comprehensive examination and result capture at various levels.

**Specialized Equipment Tracking** allows users to track critical equipment individually and can be seamlessly integrated into the work processes of other assets. It is able to manage preventive maintenance and lifecycle management for any asset, across diverse operational scenarios.

**Bring Your Own Intelligence (BYOI)** enables logisticians to feed existing analytics into the platform.

One Network's SMRO for maintenance and spare parts management in the DoD supply chain enables a more agile, cost-effective, and interoperable system that supports existing systems while enabling ongoing innovation. By addressing the distinct needs of all military services, these solutions can enhance visibility, collaboration, and efficiency, ensuring the readiness and operational effectiveness of the Department of Defense on a global scale.



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