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Defense, Security & Justice

Improving readiness



Military forces operate at the intersection of strategy, execution, and responsiveness, orchestrating the seamless movement of personnel and material across the globe to protect our defense and national security interests. The military distribution enterprise plays a critical role in managing deployment and distribution of forces during training, humanitarian relief, and military contingency missions.

As the military distribution enterprise strives to maintain peak operational readiness, the imperative for a unified and agile approach to logistics management has never been more critical in the great power competition. The strategic adoption of an **enterprise resource planning (ERP) solution** can revolutionize logistics management, streamline processes, and bolster operational readiness.

The military distribution enterprise encompasses a complex web of interconnected processes spanning transportation, supply chain management, asset tracking, and deployment planning. Historically, managing the intricacies of military logistics relied on disparate systems and manual processes leading to inefficiencies, delays, limited visibility, and potential vulnerabilities. However, the advent of ERP solutions heralded a paradigm shift in logistics management, offering clean and authoritative data core for military forces to achieve a comprehensive solution that overcomes these challenges. ERP solutions can serve as centralized hubs, integrating critical functions and data to provide a unified view of logistics operations. From mission planning and force deployment to supply chain

coordination and asset readiness management, ERP solutions offer the military's stakeholders real-time visibility into key performance metrics, proactive risk management, and enabling decision advantage at the strategic, operational, and tactical levels.

The functionality of ERP solutions extends beyond mere data integration. These sophisticated platforms leverage advanced analytics, predictive modeling, and automation capabilities to optimize resource utilization, identify and mitigate operational risks, and enhance responsiveness. By streamlining processes (via business process reengineering efforts), reducing manual intervention but monitoring where appropriate, and fostering collaboration across functional areas, military forces can achieve unparalleled levels of agility and effectiveness. Moreover, ERP solutions offer scalability and flexibility to adapt to evolving mission requirements and operational dynamics. These provide the military with the tools and capabilities needed to navigate the complexities of modern warfare with precision and efficiency through artificial intelligence (AI) and machine learning (ML).

Below is a suite of functionalities tailored to the unique requirements of logistics and deployment operations that can be leveraged by the military distribution enterprise.

Availability and location: ERPs offer robust inventory management features, which can significantly enhance the availability (crewing and maintenance) and location tracking of resources within the military distribution enterprise. By providing near real-time visibility into resource availability, the commanders can leverage timely and accurate allocation or reallocation of resources, reducing the likelihood of delays and meeting mission requirements. Additionally, advanced tracking capabilities can enable precise location monitoring of resources (i.e., material handling equipment) across separate locations and stages of the deployment cycle, thereby reducing bottlenecks and enhancing operational transparency and control.

Training: The integrated nature of ERP systems facilitates the creation and implementation of standardized training modules, which can be accessed and utilized across different organizations at various levels within military organizations. This ensures that all personnel are equipped with consistent, up-to-date knowledge and skills, thereby enhancing workforce competency and readiness to complete the mission when needed.

Predictive maintenance: ERP systems leverage advanced analytics and predictive modeling to optimize maintenance schedules and processes. This can enable the military distribution enterprise to anticipate and address potential equipment failures or malfunctions before they occur, thereby reducing downtime and enhancing the readiness and reliability of equipment. This capability can even stage the material and personnel resources necessary to conduct material maintenance.

Crewing and scheduling: Through automation capabilities, ERP systems can streamline and optimize crewing and scheduling processes. By utilizing historical and real-time data, these systems can allocate human resources efficiently, considering factors such as skill level, availability, and training requirements. This can enable the military forces to make sure that the qualified personnel are assigned at the right location and time, thereby enhancing operational efficiency and responsiveness to meet the commander's intent.

In conclusion, by integrating and streamlining various operational processes, ERPs can significantly enhance the readiness of the military distribution enterprise. These systems provide a comprehensive, data-driven approach to managing resources, training personnel, and scheduling tasks, thereby enabling the command to navigate the complexities of modern warfare with enhanced precision, efficiency, and effectiveness to meet military and national objectives.

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