

Advancing Aerospace and Defense Supply Chains with Oracle Cloud



Intellinum



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INTRODUCTION

Aerospace and defense organizations operate in one of the most complex and regulated supply chain environments in the world. Whether building mission-critical systems, maintaining fleet readiness, or managing international defense logistics, A&D companies need resilient, integrated platforms to respond with agility, ensure compliance, and maintain strategic advantage.

Oracle Fusion Cloud Supply Chain & Manufacturing (SCM), including Warehouse Management (WMS) and Transportation Management (OTM), offers a proven foundation to modernize and streamline end-to-end operations. Trusted by commercial aerospace manufacturers and defense contractors alike, Oracle Cloud brings real-time visibility, intelligent planning, and global execution capabilities to the core of A&D operations.

Why Oracle for Aerospace & Defense?

TAILORED FOR COMPLEX, REGULATED ENVIRONMENTS

Oracle Cloud SCM is designed to handle the distinct requirements of A&D organizations:

- **Serial and Lot Traceability:** Track every component, from supplier through assembly and deployment, with full auditability.
- **ITAR & Export Compliance:** Maintain data governance and access control in alignment with international regulations.
- **Long Product Lifecycles:** Support complex configuration, maintenance histories, and service lifecycle requirements.
- **Global Collaboration:** Coordinate across OEMs, subcontractors, and government agencies within a single cloud environment.

A leading aircraft manufacturer consolidated 15 legacy systems into Oracle Cloud SCM to reduce cycle times, simplify compliance reporting, and improve program visibility across its global partner network.



For detailed information, visit: www.intellinum.com

Oracle Warehouse Management (WMS): Precision Control for Mission-Critical Assets



A&D supply chains manage everything from raw materials and fasteners to high-value assemblies and sensitive defense components. Oracle WMS provides:

- **Granular Visibility:** Real-time tracking of serialized and revision-controlled parts.
- **Multi-Site Execution:** Standardize receiving, kitting, and inspections across depots and production facilities.
- **Secure Handling:** Role-based access, chain-of-custody controls, and quality workflows for defense-sensitive items.
- **Lifecycle Support:** Enable returns, overhauls, and sustainment processes with complete parts history.

WHY IT MATTERS

Delays, miscounts, or quality defects can disrupt production and compromise mission readiness. Oracle WMS supports precise, accountable execution in line with stringent program requirements.

Oracle Transportation Management (OTM): Global Movement, Secured and Synchronized



From cross-border part shipments to field logistics for defense programs, transportation execution in A&D demands security, visibility, and cost control.

Oracle OTM helps aerospace and defense organizations:

- **Optimize Global Freight:** Manage multimodal routes, bonded shipments, and just-in-sequence deliveries.
- **Enhance In-Transit Visibility:** Monitor temperature-sensitive or high-security cargo with IoT-enabled tracking.
- **Manage Compliance and Risk:** Automate documentation, licensing checks, and export control validations.
- **Reduce Cost-to-Serve:** Analyze landed costs and carrier performance to improve sourcing and delivery strategies.

A major defense contractor uses Oracle OTM to streamline global shipments of classified equipment, ensuring customs compliance and proactive risk mitigation through real-time visibility.



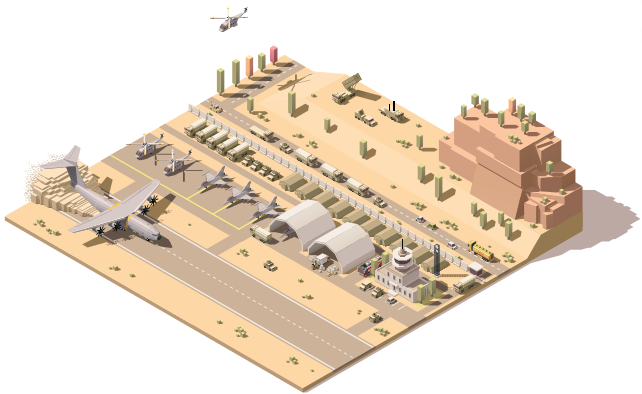
Oracle's Integrated A&D Ecosystem

APPLICATION	STRATEGIC IMPACT FOR A&D
Product Lifecycle Management (PLM)	Control change management, versioning, and NPI processes
Supply Planning	Align sourcing, inventory, and capacity with demand shifts
Manufacturing	Enable lot-controlled, configured-to-order production
Warehouse Management (WMS)	Manage serialized inventory, inspections, and returns
Transportation Management (OTM)	Securely orchestrate global logistics and compliance
IoT & Predictive Analytics	Monitor asset health, warehouse KPIs, and supplier risk

Designed for Regulated and Mission-Critical Environments

Oracle is trusted by leading aerospace and defense providers around the world because of its ability to scale, integrate, and comply with stringent DOD and government regulations.

- Oracle's industry advantage includes:
- Unified platform: Integrates ERP, HCM, SCM, and Field Service Cloud
- Scalability: Supports large, distributed operations with global reliability
- Security and compliance: Built-in controls for regulatory, safety, and audit standards
- Continuous innovation: Quarterly updates and cloud-native extensibility
- AI-driven insights: Predict disruptions, optimize logistics, and monitor field trends



CONCLUSION

The aerospace and defense industry must operate with accuracy, discipline, and resilience — under constant pressure from cost targets, compliance mandates, and shifting global threats.

Oracle Cloud SCM, WMS, and OTM provide a unified platform to modernize legacy systems, empower decision-makers with real-time insights, and standardize processes across the full lifecycle of A&D operations.

From the tarmac to the theater of operations, Oracle helps aerospace and defense organizations deliver mission success with confidence.