

Logistics Management System White Paper

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(PEO IEW&S), Program Manager Biometrics

Logistics Management System (LMS)

Proposal & White Paper

DOOTA INDUSTRIAL AMERICA LLC

16333 S Great Oaks Dr Ste 124
Round Rock, Texas 78681
www.dootaus.com

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Submitted To:

Raul Rizzo
760-851-6019
raul.rizzo.ctr@mail.smil.mil

Submitted By:

Al Rhee, Director of Business Architect
737-292-8091
crhee@dootaus.com

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1. EXECUTIVE SUMMARY

The Logistics Management System (LMS) is a scalable software platform designed to optimize supply chain visibility, inventory control, transportation management, and warehouse operations. Developed for industrial and commercial environments, LMS integrates real-time data from various logistics processes to ensure operational efficiency, reduce costs, and improve performance outcomes.

2. OBJECTIVES

- Provide a unified view of inventory and assets across multiple locations.
- Track shipments and transport activities in real time.
- Optimize warehouse operations and space utilization.
- Integrate demand planning and forecasting.
- Enable predictive analytics to mitigate supply chain disruptions.

3. TECHNICAL REQUIREMENTS

- Cloud and on-premises deployment support
- Integration with ERP systems and external logistics providers
- Support for RFID and barcode tracking
- Secure API architecture for data sharing
- Advanced analytics and reporting tools
- Role-based access control (RBAC)
- Data encryption (AES-256) for stored and transmitted data

4. SYSTEM ARCHITECTURE

Data Integration Layer

- Connects with ERP systems, transportation systems, and warehouse management software.
- Processes data feeds from RFID, GPS, and barcode systems.

Inventory & Asset Management

- Provides real-time inventory visibility.
- Tracks asset location and status across facilities.

- Generates reports on inventory levels and movement trends.

Transportation Management

- Manages route planning and optimization.
- Tracks shipments in transit.
- Automates carrier selection and rate management.

Warehouse Operations

- Controls storage allocation and picking strategies.
- Supports dynamic slotting and space optimization.
- Tracks labor performance and task completion.

Analytics & Reporting

- Dashboard visualizations for supply chain metrics.
- Predictive analytics for demand forecasting.

5. TECHNICAL PROPOSAL OVERVIEW

The proposed LMS platform transforms traditional logistics into a digital, connected, and data-driven process. Key benefits include:

- Complete visibility across the supply chain
- Faster response to supply chain disruptions
- Reduced operational costs through optimized resource use
- Enhanced decision-making through advanced analytics

6. OPERATIONAL ADVANTAGES

- Real-time tracking of inventory and shipments
- Improved warehouse efficiency
- Lower transportation costs through optimization
- Enhanced data security and regulatory compliance
- Scalable architecture for future growth

7. DEVELOPMENT TIMELINE

Stage	Task	Duration
1	Requirements Analysis & System Design	4 weeks
2	Core Module Development (Inventory, TMS)	8 weeks
3	Integration with ERP and external systems	6 weeks
4	Analytics & Reporting Implementation	5 weeks
5	UI/UX Development & Testing	4 weeks

Stage	Task	Duration
6	System Validation & Security Hardening	5 weeks
7	Documentation & Training Preparation	2 weeks
Total Duration		34 weeks (~8 months)

8. ROM COST ESTIMATE

Cost Category	Amount (USD)
Core Module Development	\$250,000
ERP and System Integration	\$150,000
Analytics & Reporting	\$100,000
UI/UX Design and Development	\$50,000
Cybersecurity Compliance	\$30,000
Documentation & Training	\$20,000
Year-1 Optional Support	\$20,000
Estimated Total	\$620,000

9. CONCLUSION

The Logistics Management System (LMS) provides a comprehensive, modern solution to manage complex logistics operations in commercial and industrial contexts. With robust integration capabilities and advanced analytics, LMS ensures organizations are equipped to streamline supply chain operations and reduce overall costs.