# DMS – Device Management System White Paper

**Prepared For:**  
United States Army, Headquarters, Department of the Army (HQDA)  
DAMI-CD Initiative Div

United States Army, Program Executive Office for Intelligence, Electronic Warfare and Sensors (PEO IEW&S), Program Manager Biometrics

**DMS – Device Management System**  
Proposal & White Paper

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## 1. EXECUTIVE SUMMARY

The Device Management System (DMS) is a scalable platform for managing devices, monitoring telemetry, and automating documentation processes. Originally designed for industrial applications, it ensures operational efficiency, traceability, and simplified network configuration, making it suitable for defense and commercial uses.

## 2. OBJECTIVES

* Provide centralized device monitoring and management.
* Integrate real-time telemetry data for proactive insights.
* Enable mobile-based logging through QR/barcode scanning.
* Automate Port/IP assignments for rapid network setup.
* Manage user-generated and automated documentation.

## 3. TECHNICAL REQUIREMENTS

* Cloud-ready architecture
* Mobile support for iOS and Android
* Offline operation with data sync
* Real-time data ingestion from telemetry devices
* AES-256 encryption for data protection
* Web-based dashboards and reporting

## 4. SYSTEM ARCHITECTURE

### Data Collection Layer

* Ingests telemetry data from devices.
* Normalizes diverse input types for analysis.

### Management & Analytics Layer

* Central dashboards for monitoring.
* Provides statistical reports and alerts.

### Mobile Operations Layer

* Mobile app for work orders and logging.
* QR/barcode scanning support.

### Network Configuration Layer

* Automates Port/IP assignments.
* Simplifies large-scale deployments.

### Documentation Layer

* Supports both user uploads and auto-generated documents.
* Centralized storage and search.

## 5. TECHNICAL PROPOSAL OVERVIEW

DMS offers a unified platform to manage diverse operational environments with:

* Real-time visibility into devices and operations
* Paperless workflows improving reliability
* Scalability for large deployments
* Efficient documentation and audit trails

## 6. OPERATIONAL ADVANTAGES

* Mobility and flexible field operations
* Traceability for compliance and audits
* Reduced workload for staff through automation
* Improved operational readiness

## 7. DEVELOPMENT TIMELINE

| Stage | Task | Duration |
| --- | --- | --- |
| 1 | Requirements Gathering | 3 weeks |
| 2 | Data Pipeline Development | 4 weeks |
| 3 | Mobile App Development | 4 weeks |
| 4 | Network Configuration Automation | 3 weeks |
| 5 | Documentation System Development | 3 weeks |
| 6 | UI/UX Development & Testing | 3 weeks |
| 7 | System Validation & Security | 4 weeks |
| 8 | Documentation & Training Prep | 2 weeks |
| **Total Duration** |  | **26 weeks (~6 months)** |

## 8. ROM COST ESTIMATE

| Cost Category | Amount (USD) |
| --- | --- |
| Data Ingestion & Telemetry | $25,000 |
| Mobile App Development | $20,000 |
| Network Automation Module | $10,000 |
| Documentation System | $10,000 |
| UI/UX Development | $10,000 |
| Cybersecurity & Compliance | $10,000 |
| Documentation & Training | $5,000 |
| Year-1 Optional Support | $10,000 |
| **Estimated Total** | **$90,000** |

## 9. CONCLUSION

The Device Management System (DMS) brings digital efficiency to device monitoring and management, offering scalability, security, and integrated tools to support operational excellence in both industrial and defense environments.