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# Why EMS Needs a Prehospital Blood Management System

Emergency Medical Services (EMS) are evolving beyond transportation and stabilization. Today, EMS plays a critical role in lifesaving interventions—none more urgent than prehospital blood transfusion. The ability to deliver warm, viable, and compliant blood to the point of injury is redefining trauma care.

Yet, with the expansion of mobile blood programs comes the challenge of accountability, compliance, and oversight—areas where traditional blood banks excel but EMS operations often lack infrastructure. The answer: a seamless, field-ready Prehospital Blood Management System (PBMS) engineered specifically for EMS.

Delta Development Team (DDT) offers the only system on the market that delivers the same audit-quality documentation, traceability, and regulatory compliance as hospital blood banks, while being designed for extreme environments and frontline use.

## The Problem: Gaps in Field Blood Program Oversight

Historically, blood accountability was confined to hospital-based settings with centralized controls, FDA and AABB compliant storage, and staff trained in blood management. However, the shift toward prehospital blood transfusions in helicopters, ambulances, and disaster zones has left a gap in:

- Real-time temperature monitoring and alerts
- Documentation and audit trails that meet regulatory standards
- Inventory and rotation oversight across multiple field teams
- Device performance in uncontrolled, extreme conditions

Without a system that mirrors blood bank-level controls, EMS risks wasted blood, compliance violations, and most critically missed opportunities to save lives.

## The Solution: Delta's Prehospital Blood Management System (PBMS)

DDT's Prehospital Blood Management System, powered by BloodCOMM, closes the accountability gap while elevating field-readiness beyond traditional standards.

## 1. BloodCOMM Software Platform

- Real-time monitoring of every connected blood storage device
- Instant alerts for pending temperature excursions, device errors, or connectivity issues
- Full audit trails and chain-of-custody documentation
- Mobile app interface enabling field staff to manage blood like a hospital blood bank
- **BloodCOMM Premium** includes:
  - Advanced inventory management
  - Rotation tracking by individual blood bag number
  - Capacity visibility across mobile teams and remote sites
  - Optimized cross-site efficiency for seamless blood movement across the entire ecosystem—from blood bank to EMS agency, to neighboring agencies, and back—ensuring traceability, compliance, and readiness at every handoff.

## 2. FDA & AABB-Compliant Devices

DDT's devices are engineered and tested to meet and exceed regulatory requirements:

- Maintain blood storage temperature between 1–6°C, per FDA and AABB standards
- **Waterproof and dustproof**, built for EMS, wilderness, and combat environments
- Designed for **multi-day, 24/7 use** in field and vehicle operations
- **Unmatched thermal performance**—DDT devices maintain required temperatures longer than any competitor in the market

Unlike competitors who rely on fluctuating temperature profiles permitted under ISTA Standard 20 (STD-0020)—which allow for cooler night temperatures—DDT devices are tested under constant extreme ambient conditions. This ensures accurate and mission-reliable duration estimates, giving EMS teams dependable performance data for real-world planning and field deployment.

## Why This Matters

With DDT's PBMS, EMS teams can trust they are providing safe, compliant, and life-saving blood transfusions in the most challenging environments. The system ensures:

- **Blood is always available and viable** when a patient need arises
- Programs are **regulatory-compliant and inspection-ready**
- **Supervisors have visibility** across all blood assets and devices in real time
- **Lives are saved** with faster and more effective transfusion capabilities in the field

## Conclusion: Modernize Your Mobile Blood Program

As EMS becomes more proactive and mobile-focused, it must also inherit the oversight, accountability, and quality of the traditional blood bank. DDT's Prehospital Blood Management System is the only solution that brings these two worlds together—without compromise.

**Trust your blood program with the system that's engineered for mission success.**

**Delta Development Team. Field-Proven. Blood Bank-Certified. EMS Ready.**