

## BloodTrack® Solutions Frequently Asked Questions

### 1. What is BloodTrack®?

BloodTrack is a modular suite of blood management and bedside transfusion solutions that combines software with hardware components to provide the blood bank with the control, visibility, and traceability it needs to safely and properly store and dispense blood products — including plasma derivatives, in high need clinical areas, such as the emergency department, trauma center, critical care units, oncology unit, and surgical suite — and help you verify that the *right* blood is transfused to the *right* patient at the bedside.

### 2. Why do I need BloodTrack® Solutions?

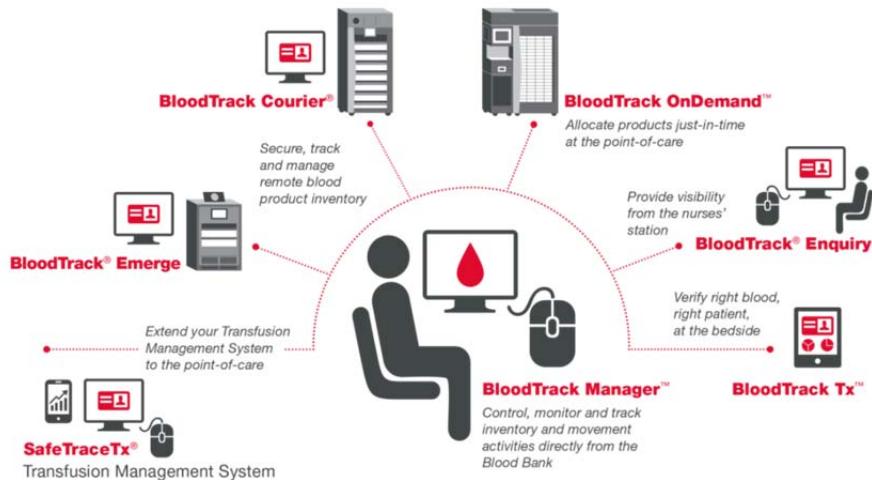
The BloodTrack suite of modular solutions acts as an extension of your blood bank information system (BBIS) to physically secure and electronically verify and monitor your hospital's blood supply chain to ensure the *right* blood product is transfused to the *right* patient, at the *right* time, in the right condition.

Within its integrated modules, BloodTrack Solutions are able to control, track, and monitor blood products, including plasma derivatives, by securing new or existing storage locations (e.g., refrigerators, room temperature cabinets, or freezers) with software-controlled electromagnetic locks connected to a BloodTrack Kiosk or through an integrated BloodTrack OnDemand™ device.

BloodTrack Solutions electronically documents user access, blood product movements, and out-of-storage times, helping you achieve compliance with your regulations, guidelines, and standard operating procedures (SOPs) — in effect extending the walls of your blood bank to the point-of-care. This provides you with the visibility needed to make informed, real-time decisions to help ensure timely patient care, patient safety, and regulatory compliance.

Plus, institutions that have implemented BloodTrack modules in strategic locations have seen an increase in patient safety, a decrease in blood inventory, a reduction in blood waste, and a significant improvement in efficiency.

**3. How many modules are in the BloodTrack® suite of solutions and how are they used?**



*The BloodTrack suite of modular solutions extends your Transfusion Management System (using SafeTrace Tx® or other system) to the point-of-care. All 6 modules are controlled by BloodTrack Manager.*

The 6 integrated modules within the BloodTrack suite of solutions helps to ensure that each link in the blood supply chain is optimized to reduce costs, eliminate waste, and provide better patient care. These modules fall under the following three categories: Blood Inventory Management, Just-in-Time Blood Product Allocation, and Bedside Transfusion Verification. All of the modules are connected to a centralized control and management system, called BloodTrack Manager™. See below for descriptions of each module:

**1. BloodTrack® Emerge (Blood Inventory Management)**

Controls, tracks, and monitors emergency blood products (O-Neg and/or O-Pos RBCs, plasma, and platelets) access in the emergency department, trauma area, or outpatient surgical center by securing new or existing storage locations (e.g., refrigerators, room temperature cabinets, or freezers) with software-controlled electromagnetic locks, which provides your authorized caregivers with immediate access to emergency blood where and when they are needed.

**2. BloodTrack Courier® (Blood Inventory Management)**

Controls, verifies, and monitors emergency and crossmatched blood products (RBCs, plasma, platelets, plasma derivatives) in clinical areas such as Labor and Delivery, Intensive Care Units, and Oncology (inpatient or outpatient) by securing new or existing storage locations (e.g., refrigerators, room temperature cabinets, or freezers) with software-controlled electromagnetic locks.

### 3. **BloodTrack OnDemand™ (Just-in-Time Blood Product Allocation)**

Automated blood inventory and point-of-care blood product allocation solution that quickly allocates the *right* blood product to the *right* patient where and when it's needed, eliminating the need to crossmatch and label blood products in advance and reducing blood bank and clinical staff workload. Operates with the following BloodTrack OnDemand devices to help you allocate and dispense products "just-in-time" at the point-of-care: BloodTrack® HaemoBank™, BloodTrack HemoSafe, and the BloodTrack HemoNine. They are sometimes referred to as a "blood vending machine," "blood bank vending machine," "automated blood dispensing machine," or "smart blood dispensing refrigerator."

### 4. **BloodTrack® Enquiry (Clinical Transfusion Workflow)**

Provides nurses and clinicians with a real-time view of blood inventory by enabling them to check crossmatch sample validity, view and query the location of blood units, determine the patient's transfusion status, and monitor the status of transfusions from any workstation. This helps to improve clinical efficiency and reduce unnecessary calls to the blood bank.

### 5. **BloodTrack Tx™ (Bedside Transfusion Verification)**

An FDA 510(k)-cleared bedside transfusion verification solution that electronically verifies the *right* blood is transfused to the *right* patient at the bedside and records transfusions, patient vitals, reactions, and staff IDs for Hemovigilance compliance.

- **AutoPPI® (Admission)**

Prints barcoded wristbands (linear and 2D) for positive patient identification, enabling BloodTrack Tx deployments without the need for wireless networks.

### 6. **BloodTrack Manager™ (Central Control and Management System)**

BloodTrack Manager is located in the blood bank and provides a centralized view of actionable, real-time hospital-wide blood product inventory, patient transfusion activity data, and real-time alerts allowing the blood bank to monitor and track blood products and access to BloodTrack-controlled storage locations and to help ensure compliance and patient safety.

## 4. **How can BloodTrack Solutions help my organization?**

The BloodTrack suite of modular solutions provides you with visibility, traceability, and proactive monitoring of blood inventory stored outside of the blood bank, and also helps to ensure positive patient identification at the bedside for transfusion. From a caregiver perspective, BloodTrack Solutions can help improve your access to routine and emergency blood products and plasma-derived products by storing and dispensing them at the

point-of-care. It can also eliminate or reduce the hassle of manually completing paperwork required by your blood bank since transactions and movements (staff, unit, patient, time), including transfusion documentation, are recorded electronically.

Institutions that have deployed BloodTrack Solutions have gained efficiencies, lowered costs, reduced crossmatch to transfusion (C/T) ratios, and experienced an overall improvement in patient care by reducing the time to transfusion.

By implementing BloodTrack® Solutions you can help your organization:

- Improve patient safety by verifying “*right* blood product, *right* patient” at the bedside
- Help enhance clinical outcomes by reducing time to transfusion
- Safely and properly store and dispense blood products at the point-of-care
- Eliminate the use of coolers
- Reduce transport time
- Decrease blood waste
- Eliminate manual paper-based processes
- Maintain complete traceability

## **5. Which BloodTrack Solution(s) is best for my organization?**

We have a team of business design analysts and professional project managers to help your organization determine the best combination of BloodTrack Solutions to fit your needs. In some instances, we recommend an “onsite” baseline assessment to help us learn as much as possible about your current operations to ensure that we recommend the right solution, configure it properly for your needs, and establish the baseline against which we will show progress once BloodTrack Solutions are implemented.

## **6. How do BloodTrack Solutions work when my patient needs a transfusion?**

When a patient needs a transfusion, authorized personnel go to the BloodTrack kiosk or BloodTrack OnDemand™ device and identify themselves, as well as the patient. Depending upon the nature of the need, either an emergency release is activated, or known patient request is made at the kiosk, using a pick-up slip or manually entering the patients’ medical record number (MRN). The blood product dispensing and labeling process proceeds according to the configuration of the BloodTrack software, the type of interface with the transfusion management system, and the patient’s requirements.

A complete audit trail of all events related to a blood product or plasma-derived product is recorded – from the time the authorized user access this kiosk, to the verification of the *right* blood, *right* patient at the bedside. Each time that a blood or plasma-derived product is handled; the BloodTrack software verifies the following:

- The person accessing the BloodTrack kiosk or BloodTrack OnDemand device is authorized to do so
- The patient is known and has a history on file (except for emergency release)
- The crossmatch has not passed its specimen expiration date
- The special needs of the patient are those managed by the BloodTrack software
- The blood product has not passed its expiry date
- The blood product is the oldest available for the specified patient
- The blood product has not been outside of refrigeration longer than appropriate (product returns)

**7. Can anyone access a BloodTrack® kiosk or BloodTrack OnDemand™ device and remove units of blood?**

No. Only trained and authorized users are able to access BloodTrack kiosks and BloodTrack OnDemand devices. Users must present credentials (e.g., badge, pin number, or other site-defined identification process) at the BloodTrack kiosk or BloodTrack OnDemand device, which verifies that the person accessing it is authorized to do so.

**8. How is the patient identified at a BloodTrack kiosk or BloodTrack OnDemand device?**

Patient identification at a BloodTrack software-controlled storage location (kiosk or device) can occur in 4 ways:

1. The safest method is to deploy BloodTrack Tx™ — bedside transfusion verification solution — at the patient’s bedside and print a barcoded pick-up slip label after scanning the patient’s barcoded wristband. The pick-up slip containing the patient’s information can then be used as a digital key in unlocking the blood at a BloodTrack® kiosk or BloodTrack OnDemand device
2. Pick-up slips can be printed by entering the patient’s information into our BloodTrack Enquiry clinical software application, which may be installed on clinical workstations
3. At the BloodTrack kiosk or BloodTrack OnDemand device, your authorized caregivers can enter the patient’s hospital number (e.g., MRN) or last name into the kiosk using a touch screen keyboard
4. At the BloodTrack kiosk or BloodTrack OnDemand device, authorized caregivers can scan a patient’s paper record containing his/her barcoded hospital number (e.g., MRN) into the kiosk

**9. What is the difference between the BloodTrack OnDemand™ devices (BloodTrack® HaemoBank™, HemoSafe, and HemoNine)?**

The HaemoBank™, HemoSafe, and HemoNine BloodTrack OnDemand devices (sometimes referred to as “smart refrigerators” or “blood vending machines”) secure, track, monitor, and remotely allocate unassigned, crossmatched and emergency blood products as well as plasma-derived products just-in-time, at the point-of-care.

- The **BloodTrack HaemoBank** is a just-in-time blood allocation solution developed through a strategic partnership with Helmer Scientific, the leading Blood Bank Cold Storage Manufacturer, to develop innovative, next generation blood management solutions. This device has 80 individual secure access compartments with visual indicators and includes an attached access console consisting of a kiosk with scanner, printer, rotating shelf, and a locked consumable cabinet.
- The **BloodTrack® HemoSafe** and **HemoNine** are made through an agreement with Angelantoni Industrie SpA. These devices differ in the manner in which each blood unit is physically secured. The HemoSafe uses individual compartments to secure blood products, while the HemoNine is a 9-drawer locking storage device — one drawer for each of the ABO RH blood groups and one for crossmatched units — which is controlled by a BloodTrack kiosk.

The process of remotely allocating and dispensing blood products “just-in-time” using the BloodTrack OnDemand™ solutions (HaemoBank, HemoSafe and HemoNine) is identical.

**10. In what types of storage locations are BloodTrack Courier® and BloodTrack® Emerge used or deployed?**

BloodTrack Courier and BloodTrack Emerge can be deployed to control a wide variety of storage locations including refrigerators, room temperature cabinets, freezers, and incubators/agitators. The Haemonetics Business Optimization team can assess your specific storage location to ensure it can be secured with software-controlled electromagnetic locks connected to a BloodTrack Kiosk.

**11. Do I need an interface for BloodTrack Emerge?**

No. BloodTrack Emerge can be deployed without an interface to a transfusion management or blood bank information system (BBIS). The BloodTrack Manager software — which connects to the BloodTrack Emerge kiosk — secures, monitors, and electronically records emergency blood product access, movements, and out-of-storage times. This provides your authorized caregivers with immediate access to O Pos and O Neg RBCs, plasma and platelet products where and when they are needed. A barcoded report of dispensed units can then be printed from BloodTrack Manager at the end of the day and scanned into your BBIS to reconcile the inventory.

**12. Does our hospital need a wireless network to implement BloodTrack Tx™ for blood verification at the bedside?**

No. BloodTrack Tx can be deployed in non-wireless environments by leveraging 2D barcodes on the patient’s wristband and blood unit compatibility label. Information on the mobile device can be uploaded to a central server via a cradle docking station.

**13. What do the following terms mean: BloodTrack OnDemand™, remote allocation, remote assignment, “just-in-time” dispensing, and electronic remote blood issue (ERBI)?**

The following terms are used in the industry for the same revolutionary method of safely and quickly providing blood products to patients:

- **BloodTrack OnDemand™** is the solution provided by Haemonetics that performs Remote Allocation using the HaemoBank, HemoSafe, or HemoNine devices, which are sometime referred to as automated blood product dispensing refrigerators or blood vending machines
- **Remote allocation** is also referred to as automating of the electronic crossmatch (EXM), which is the process of allocating, dispensing, and labeling blood products, just-in-time, at the point-of-care
- **Remote assignment** is the process of assigning units to patients in the BBIS so that they can be dispensed and labeled at the point-of-care. This is the method used for unidirectional or print capture interface – from the BBIS to a BloodTrack® kiosk or device
- **Just-in-time dispensing** is the outcome of implementing BloodTrack OnDemand™ devices
- **ERBI** is the European term for remote allocation

**14. Does the BloodTrack® suite of solutions have an interface with my BBIS?**

BloodTrack Solutions has interfaces with most BBIS vendors. The nature of the interface may be one-way communication (unidirectional) or a two-way communication (bidirectional):

- **Unidirectional Interface (Print Capture): Remote Assignment**
  - Cerner® Classic, Sunquest®, Meditech, BBCS, and any BBIS if the required data elements are on or can be added to the product compatibility
- **Basic Bidirectional Interface: Remote Assignment**
  - Cerner Millennium®
- **Full Bidirectional Interface: Remote Allocation**
  - SafeTrace Tx®, Medware® HCLL, BBCS, SCC Soft

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