



# CASE STUDY

## Leading UK Pathology & Histology Laboratory

Ensuring Sample Integrity and Workflow Efficiency with BinaryMed

### Key Metrics



**100%**  
ACCURACY

In securing sample deliveries between centres and the lab.



**8,891**  
SAMPLES TRACKED

Over a period of 2 months.



**55**  
PERSONNEL

Utilised the solution.



**8 - 12**  
DAILY DELIVERIES

Monitored, a small subset of the labs overall service.

### CHALLENGES

- Pathology and histology laboratory struggled with tracking and securing blood and tissue samples in transit.
- Needed real-time visibility of quality indicators during sample transit.
- High sample throughput with frequent misplaced sample containers.

### SOLUTION

- **Technology:** Cicada Voyager trackers attached inside shipment containers.
- **Platform:** The Binary Cloud enabled real-time monitoring of quality indicators and sample location.
- **New Feature - Manifests:** Enabled lab to track and manage the journey of each sample from dispatch to arrival.

### HOW THE SOLUTION WORKED

1. **Create Manifest:** Cicada Voyager trackers attached inside shipment containers.
2. **Sample Scanning:** Samples are scanned and registered before dispatch from the collection centre.
3. **Dispatch Confirmation:** The lab receives confirmation of the dispatch. Trackers detect container access during transit.
4. **Arrival Validation:** Upon arrival, all samples are checked against the manifest to ensure none are missing and then removed from the manifest.
5. **Alert Management:** Alerts are triggered if any temperature conditions exceed set parameters, allowing immediate action.

### IMPACT AND OUTCOMES

#### 1 Issue Resolution

Utilised real-time data to locate misplaced sample containers promptly.

#### 2 Audit Readiness

Validated transportation temperatures for auditing purposes, enhancing compliance.

#### 3 User Adoption

The platform's user-friendly interface enabled 55 personnel to adopt the service seamlessly.

#### 4 Workflow Assurance

By tracking 8 - 12 journeys per day, the lab gained confidence in their workflow, ensuring a secure and seamless patient journey.

#### 5 Real Time Alerts

The ability to receive real-time alerts when out-of-band workflow parameters were breached allowed lab staff to monitor pre-analytical status before samples even reached the lab.