

MANAGED TEMPERATURE CONTROLLED FREIGHT

CUSTOMIZED SOLUTION FOR HIGH-VALUE, TIME-SENSITIVE, TEMPERATURE-CONTROLLED AIR AND OCEAN SHIPMENTS

Pharmaceutical companies with high-value life-saving products have strict time- and temperature-sensitive requirements. Global visibility, shipment control, and a single point of contact are needed to enable the highest level of service reliability, timely delivery, and regulatory compliance. This reduces the risk to patient care and the company's brand reputation.

TYPICAL BUSINESS CHALLENGES

- ✓ Cutting the complexity and risk of product handling and transportation
- ✓ Ensuring product integrity and regulatory compliance
- ✓ Responding rapidly and appropriately to supply chain events and disruption
- ✓ Reducing high shipping and insurance costs



WE CARE

DHL SOLUTION

Incorporating the DHL LifeTrack® cold chain tracking app, this solution is customized to the specific needs of each pharmaceutical company. It provides timely shipment data, artificial intelligence, and the dedicated services of a highly competent team to deliver on exacting standards of service and compliance.

SOLVING YOUR BUSINESS CHALLENGES

✓ Cutting the complexity and risk of product handling and transportation

Purpose-built solution to meet service/cost performance requirements; visibility and insights to manage complexity and risk; shipment temperature sensors and trackers.

✓ Ensuring product integrity and regulatory compliance

Life sciences staff trained in GxP and regulatory compliance; processes are pre-agreed and then deployed, executed, and audited; excursion and handling events are documented

✓ Responding rapidly and appropriately to supply chain events and disruption

With a single point of contact, event response is well managed; recovery actions are finalized and executed through the DHL service suite including Same Day specialty courier services

✓ Reducing high shipping and insurance costs

Data-driven shipment visibility, integrity, and compliance; shipment data and analytics applied to reduce service level risk; simplified event management; multiple perspectives on cost reduction.

Managed Temperature Controlled Freight



KEY BENEFITS FOR YOUR BUSINESS

INNOVATE AND IMPROVE



Innovations to improve customer experience and operations. Mindset of continuous improvement

EXPERTISE FOR PEACE OF MIND



Global pool of Life Science certified professionals

SAFETY & SUSTAINABILITY



Priority of Health & Safety instilled in operations. Clear Sustainability goals and action plans.

REACH & OPTIONS



Global network of assets, resources and partners of Life Science competencies






DHL's LifeConEx : Temperature Controlled Air and Ocean Freight Solutions






Physical Components

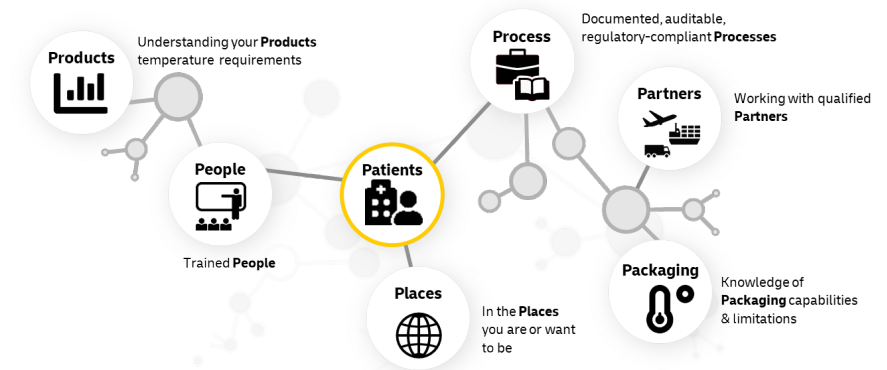
Description of physical components

- LSHC trained and certified staff.
- Documented and enforced processes (SOPs)
- GxP compliant IT platform
- Tracking and temperature monitoring devices
- Validated airline and service partners

Services

 DHL Same Day Specialty Courier
 Customized / White glove solutions
 Consultative services
 Data analytics
 Real time tracking devices

 SOP & LRA
 Visibility & Intervention
 Root Cause & CAPA
 Temperature Control
 Customization



Temperature Management Solutions

DHL Airfreight Pharma and Temperature Controlled Solutions Suite

Business Scenario & Key Customer Challenges / Requirement	DHL Solution Value Proposition
<p>Business Scenario: A biotech company needs to move temperature-sensitive products internationally, and requires a high level of visibility and strict quality control.</p> <ol style="list-style-type: none">Complexity: Maintain strict quality standards with sensitive products moving through a complex supply chainRisk: Shipment delays caused by carriers or customs, temperature excursions, and poor product security put patient health at riskRegulatory: Essential to know and conform to regulations governing pharmaceutical products (e.g., serialization, GxP requirements, customer compliance, and counterfeiting)Costs: Manage the industry-wide pressure to lower the cost of bringing medical products to patientsDisruption: To ensure patient safety, lower the impact of supply chain disruption caused by natural or man-made events <p><i>The DHL Managed Temperature-Controlled Freight solution is available for pharmaceutical customers requiring the highest level of reliability. A dedicated team of specialists will customize a purpose-built solution to meet the needs of high-value, time-sensitive, temperature-controlled shipments.</i></p> <p>This solution includes the DHL LifeTrack® cold chain tracking app and supply chain risk analytics.</p>	<p>Solution Features:</p> <ul style="list-style-type: none">• Dedicated, single point of contact for each process implementation• Real-time, active sensors to monitor temperature, humidity, GPS position, transportation visibility, and risk• Telemetry / IoT agnostic• Advanced analytics / Data-as-a-service• Lane and shipment risk assessment• Packaging analysis and consulting• Same-day specialty courier• Expedited quotation and pickup within 60-90 min• Next flight out and on-demand charter• Dangerous goods and/or clinical trials• Predictive and real-time visibility to support pharmaceutical distribution• Predictive analytics for transportation <p>Value Proposition:</p> <ul style="list-style-type: none">▪ Tailored processes expedite shipment processing▪ Flexibility in new route design extends market reach▪ Quality control validation and qualification of trade lanes and packaging solutions▪ Faster speed to market (e.g., new product launch)▪ Continuous improvement through the use of big data and advanced analytics▪ Visibility to benchmark capabilities and compare performance and risk metrics